


BABYLONIAN CHRONOLOGY

626 B.C.-A.D. 45



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# BABYLONIAN CHRONOLOGY 626 B.C.—A.D. 45

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BY RICHARD A. PARKER AND  
WALDO H. DUBBERSTEIN

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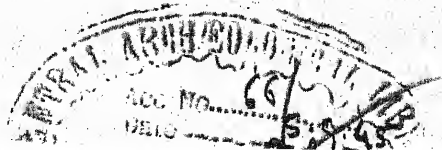
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## PREFACE

This study aims at providing a brief, but complete and thorough, presentation of the data bearing upon the chronological problems of the Neo-Babylonian, Achaemenid Persian, and Seleucid periods, together with tables for the easy translation of dates from the Babylonian calendar into the Julian.

Recent additions to our knowledge of intercalary months in the Neo-Babylonian and Persian periods have enabled us to improve upon the results of our predecessors in this field, though our great debt to F. X. Kugler and D. Sidersky for providing the background of our work is obvious.

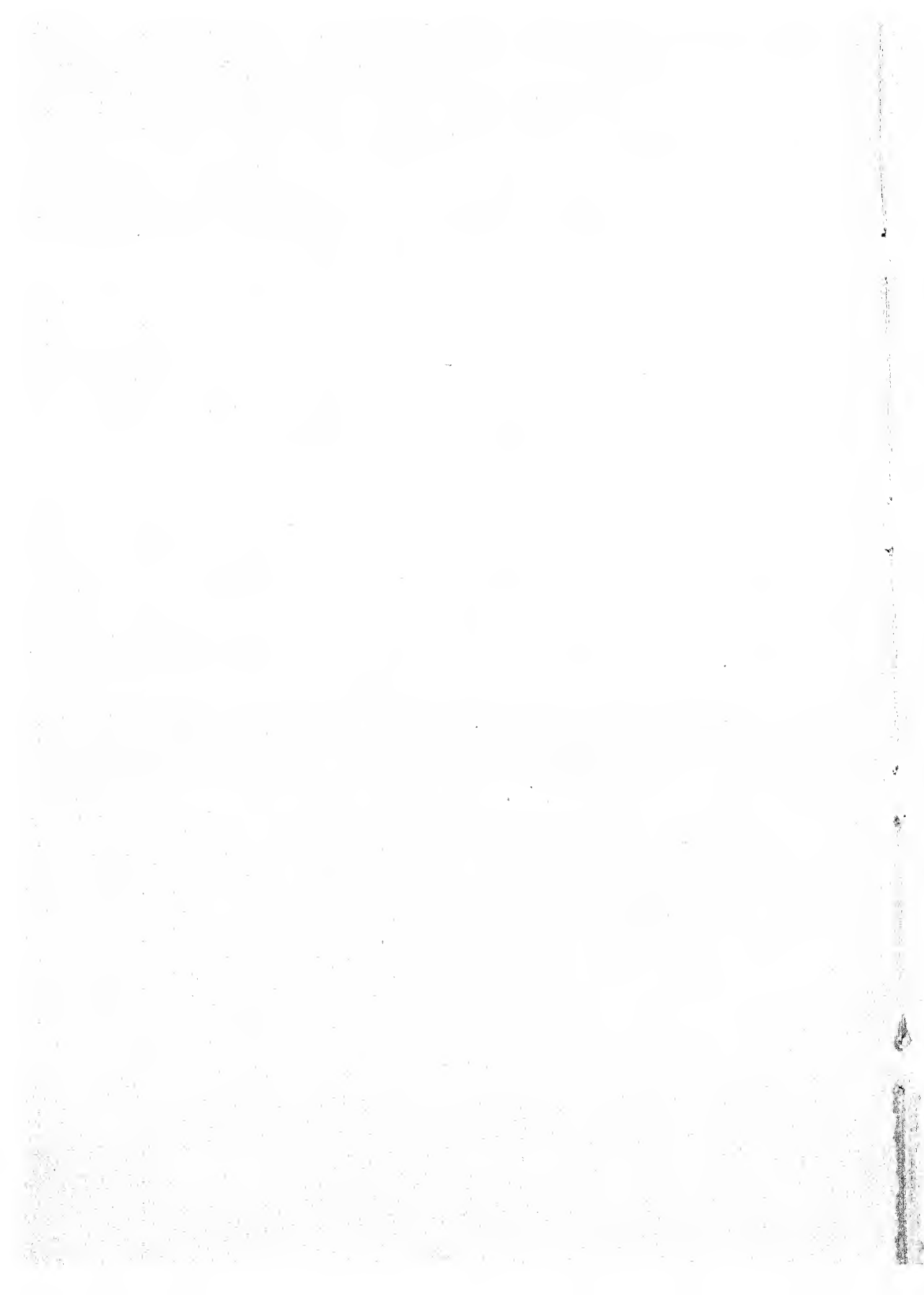
While our tables are intended primarily for historians, both classical and oriental, biblical students also should find them useful, as any biblical date of this period given in the Babylonian calendar can be translated by our tables.

In the preparation of this study we have enjoyed the fullest co-operation from our colleagues in the Oriental Institute. Professors F. W. Geers and G. G. Cameron and Dr. R. T. Hallock have been especially helpful. In matters astronomical we have conferred with Dr. J. L. Greenstein of the University of Chicago and with Professor Otto Neugebauer of Brown University, who has kindly read and criticized most of the manuscript. The painstaking editorial supervision of Dr. T. G. Allen eliminated several blunders.

To one other, however, must go our greatest thanks. It was his seminar in Achaemenid history which stimulated our interest in the chronology of that time, and his own enthusiasm for chronological studies has never permitted our own to flag. In friendship and in appreciation for generous and ever-ready assistance we dedicate this study to Professor Albert Ten Eyck Olmstead.

RICHARD A. PARKER

WALDO H. DUBBERSTEIN



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## LIST OF ABBREVIATIONS

A	Chicago. University. Oriental Institute Museum. Asiatic collection. (Followed by registration number.)
<i>AJSL</i>	American journal of Semitic languages and literatures (Chicago etc., 1884-1941).
<i>Assurbanipal</i>	STRECK, MAXIMILIAN. Assurbanipal und die letzten assyrischen Könige bis zum Untergange Nineveh's ("Vorderasiatische Biblio- thek" VII [3 vols.; Leipzig, 1916]).
<i>BE</i>	Pennsylvania. University. The Babylonian expedition of the Univer- sity of Pennsylvania. Series A: Cuneiform texts, ed. by H. V. HIL- PRECHT (Philadelphia, 1893-1914).
<i>BE VIII 1</i>	CLAY, ALBERT T. Legal and commercial transactions dated in the Assyrian, Neo-Babylonian and Persian periods (1908).
<i>BE IX</i>	HILPRECHT, H. V., and CLAY, ALBERT T. Business documents of Murashû sons of Nippur dated in the reign of Artaxerxes I (1898).
<i>BE X</i>	CLAY, ALBERT T. Business documents of Murashû sons of Nippur dated in the reign of Darius II (1904).
<i>BHT</i>	SMITH, SIDNEY. Babylonian historical texts relating to the capture and downfall of Babylon (London, 1924).
BM	British Museum.
<i>BRLM</i>	Babylonian records in the library of J. Pierpont Morgan, ed. by AL- BERT T. CLAY (New York, 1912—).
<i>BRLM I</i>	CLAY, ALBERT T. Babylonian business transactions of the first mil- lennium B.C. (1912).
<i>BRLM II</i>	CLAY, ALBERT T. Legal documents from Erech dated in the Seleucid era (1913).
<i>BRVU</i>	KRÜCKMANN, OLUF. Babylonische Rechts- und Verwaltungs-Urkun- den aus der Zeit Alexanders und der Diadochen (Weimar, 1931).
<i>Cambyses</i>	STRASSMAIER, J. N. Inschriften von Cambyses, König von Babylon ("Babylonische Texte" [V] Heft 8-9 [Leipzig, 1890]).
<i>CT</i>	British Museum. Cuneiform texts from Babylonian tablets, &c., in the British Museum (London, 1896—).
<i>Cyrus</i>	STRASSMAIER, J. N. Inschriften von Cyrus, König von Babylon ("Babylonische Texte" [IV] Heft 7 [Leipzig, 1890]).
<i>Darius</i>	STRASSMAIER, J. N. Inschriften von Darius, König von Babylon ("Babylonische Texte" [VI] Heft 10-12 [Leipzig, 1897]).
<i>ECAB</i>	SIDERSKY, DAVID. Étude sur la chronologie assyro-babyloniennne (Paris, 1916).

<i>GCCI</i>	Goucher College, <i>Baltimore</i> . Goucher College cuneiform inscriptions (New Haven, 1923—).
<i>GCCI I</i>	DOUGHERTY, R. P. Archives from Erech, time of Nebuchadrezzar and Nabonidus (1923).
<i>GCCI II</i>	DOUGHERTY, R. P. Archives from Erech, Neo-Babylonian and Persian periods (1933).
<i>JNES</i>	Journal of Near Eastern studies (Chicago, 1942—).
<i>LCE</i>	KEISER, C. E. Letters and contracts from Erech written in the Neo-Babylonian period ("Babylonian inscriptions in the collection of James B. Nies" I [New Haven, 1918]).
<i>Nabonidus</i>	STRASSMAIER, J. N. Inschriften von Nabonidus, König von Babylon ("Babylonische Texte" I, Heft 1-4 [Leipzig, 1889]).
<i>Nabuchodonosor</i>	STRASSMAIER, J. N. Inschriften von Nabuchodonosor, König von Babylon ("Babylonische Texte" II, Heft 5-6 [Leipzig, 1889]).
<i>NBD</i>	MOORE, ELLEN W. Neo-Babylonian documents in the University of Michigan collection (Ann Arbor, 1939).
<i>NBLE</i>	CLAY, ALBERT T. Neo-Babylonian letters from Erech ("Yale oriental series. Babylonian texts" III [New Haven, 1919]).
<i>NBRU</i>	POHL, ALFRED. Neubabylonische Rechtsurkunden aus den Berliner Staatlichen Museen ("Analecta Orientalia" VIII-IX [Roma, 1933-34]).
<i>NBRVT</i>	KRÜCKMANN, OLUF. Neubabylonische Rechts- und Verwaltungstexte ("Texte und Materialien der Frau Professor Hilprecht Collection of Babylonian Antiquities im Eigentum der Universität Jena" II/III [Leipzig, 1933]).
<i>PBS</i>	Pennsylvania. University. University Museum. Publications of the Babylonian section (Philadelphia, 1911—).
<i>PBS II 1</i>	CLAY, ALBERT T. Business documents of Murashu sons of Nippur dated in the reign of Darius II (1912).
<i>PSBA</i>	Society of Biblical Archaeology, <i>London</i> . Proceedings (London, 1878/79-1918).
<i>RA</i>	Revue d'assyriologie et d'archéologie orientale (Paris, 1884—).
<i>RECC</i>	TREMAINE, ARCH. Records from Erech, time of Cyrus and Cambyse ("Yale oriental series. Babylonian texts" VII [1925]).
<i>REN</i>	DOUGHERTY, R. P. Records from Erech, time of Nabonidus ("Yale oriental series. Babylonian texts" VI [1920]).
<i>SSB</i>	KUGLER, FRANZ X. Sternkunde und Sterndienst in Babel (2 vols. and 3 supplements; Münster, 1907-35).
<i>TCL</i>	Paris. Musée national du Louvre. Textes cunéiformes (Paris, 1910—).
<i>TCL IX</i>	CONTENAU, GEORGES. Contrats et lettres d'Assyrie et de Babylonie (1926).

- TCL* XII-XIII    CONTENAU, GEORGES. Contrats néo-babyloniens. I-II(1927-29).  
*UCP*            California. University. Publications in Semitic philology (Berkeley, 1907—).  
*UCP* IX 1       LUTZ, H. F. Neo-Babylonian administrative documents from Erech (1927).  
*VAS*            Berlin. Königliche Museen. Vorderasiatische Abteilung. Vorderasiatische Schriftdenkmäler (Leipzig, 1907-17).  
*ZA*            Zeitschrift für Assyriologie und verwandte Gebiete (Leipzig, 1886—).



## I

## THE BABYLONIAN CALENDAR

In the period covered by this study the Babylonian calendar year was composed of lunar months, which began when the thin crescent of the new moon was first visible in the sky at sunset. Since the lunar year was about eleven days shorter than the solar year, it was necessary at intervals to intercalate a thirteenth month, either a second Ululu (the sixth month) or a second Addaru (the twelfth month) in order that New Year's Day, Nisanu 1, should not fall much before the spring of the year (late March and early April).

It may have been in the reign of Nabonassar, 747 B.C., that Babylonian astronomers began to recognize, as the result of centuries of observation of the heavens, that 235 lunar months have almost exactly the same number of days as nineteen solar years. This meant that seven lunar months must be intercalated over each nineteen-year period.<sup>1</sup>

The specific years in which the intercalations were to be made, however, and whether they should be second Addarus or second Ululus remained to be determined empirically—a process which lasted some centuries. This fact is evident not only from an inspection of the series of attested intercalary months, as shown in Plate I, but from three interesting letters: Clay, *NBLE*, Nos. 15, 115, and 196.

No. 115 is a royal command to Kurbanni-Marduk, an official at the temple of Eanna in Uruk, stating that there would be an intercalated Addaru in the current year 15. The name Kurbanni-Marduk and year 15 make it certain that this order was sent out by Nabunaid during his 15th year. We may assume that the same royal command went out to other temples throughout Babylonia.

<sup>1</sup> Against recognition of nineteen-year cycles at that time see Kugler, *SSB* II 362–71 and 422–30. We have followed Sidersky (*ECAB*, p. 38) in taking 747 B.C. as a convenient starting-point for our scheme in Plate I, but that is not to be interpreted as unqualified acceptance of that date as the point at which Babylonian astronomers consciously recognized the principle that seven intercalations were regularly needed in each nineteen years. There can be no question, however, that the early known intercalations, when placed in the nineteen-year framework, fit to a considerable extent into the standard pattern of the cycle as later established. Since such correspondence cannot be wholly accidental, it forms the basis for our assumption of an early recognition of the nineteen-year period, which, however, still lacked a standard scheme of intercalation. Political disturbances and conscious experimentation each played a part in producing the early irregularities.

No. 15 is another letter sent to administrative officials at the temple of Eanna in Uruk, this time by the officials (*qīpāni*) of Esagila, the great temple in Babylon. This letter states merely that "the month is intercalary." The Eanna official Nabu-ah-iddina functioned according to known texts from the accession year of Cyrus to the 4th year of Cambyses. We cannot fix the date of this letter more closely. It is highly interesting because it implies that in this particular case the order for the intercalary month was not sent out until presumably in the 6th or 12th month itself, the statement implying that the present Ululu or Addaru was to be followed by an intercalated Ululu or Addaru. Note also that the order was sent out not by the king, as was the previous letter, but by priestly officials at Babylon.

The third letter, No. 196, came from Zeriġa, probably a priestly official at Babylon, to the same Nabu-ah-iddina and to his colleague Kina at the Uruk temple of Eanna, informing them that the month Ululu was to be intercalary. Possible dates for this letter are year 2 or 9 of Cyrus or year 3 of Cambyses.

The three letters together give the impression that orders for intercalary months were issued by the king in Chaldean Babylonia, then by the priestly officials at Babylon after Persia took over. We do not wish to stress this point. The orders transmitted to the temple officials at Uruk look very much like "form letters," and it seems reasonably certain that they were sent to temple officials throughout Babylonia. These letters also make it clear that no established system which fixed the seven intercalations at definite points within the nineteen-year period existed at the beginning of the Persian period. Letter No. 15 implies that intercalary orders were even issued within a few weeks of the beginning of an intercalary month.

In the fourth century—in 367 B.C. according to our scheme—the intercalations became standardized, and the nineteen-year cycle thus came into being.<sup>2</sup> Jotham Johnson (*Dura Studies* [Philadelphia, 1932] pp. 1–15) has demonstrated that at some time between 229 B.C. and the end of the literary activity of Josephus (who died A.D. 95[?]) an additional month had been intercalated into the cycle of Greek months, changing their position relative to the months of the Babylonian calendar. A Palmyrene-Greek bilingual inscription from Dura-Europus shows that the old system was still effective in A.D. 31.<sup>3</sup> Great significance must thus be accorded R. H. McDowell's discovery that, among the

<sup>2</sup> As we do not know for certain in just what year the standardization began, the nineteen-year cycle may date from as early as 383 B.C. Plate I will make this clear.

<sup>3</sup> Yale University, *The Excavations at Dura-Europus . . . Seventh and Eighth Seasons . . .*, ed. by M. I. Rostovtzeff, F. E. Brown, and C. B. Welles (New Haven, 1939) Pl. XXXVII and pp. 307–9.

vast number of coins from Seleucia, one issue of Parthian royal bronze, dated to A.D. 46/47, bears month symbols based on the new correlation.<sup>4</sup> We assume that these coins mark the introduction of the new system.<sup>5</sup>

Before 367 B.C. numerous intercalary months are known from contemporary documents. Once they have been placed in a framework of nineteen-year periods, it becomes possible to reconstruct the probable calendar. Pioneer work in collecting and tabulating intercalary months was done by Kugler and Sidersky.<sup>6</sup> Recently discovered months permit an advance on their results, so that, by a judicious use of the known, the unknown can be approximated with a varying degree of probability from 626 to 367 B.C. The result may be seen in Plate I, where the capital letters *U* and *A* represent attested intercalary Ululus and Addarus respectively, the small letters unattested but probable ones. Reconstruction before 626 is much too hazardous at present and must await further additions to our knowledge.

Study of Plate I will reveal many points of interest in the working-out of the intercalary system. In the earlier periods there is a marked preference for second Ululus, perhaps going back to the time when the year began in the autumn with the month Tashritu. A gradual shift from Ululus to Addarus in later periods can be seen. When an Addaru is missed for any reason, as in 538, the year after Cyrus conquered Babylon, an Ululu is often inserted in the following year to bring the calendar up to date more quickly. Especially to be noted is the shift, in Periods 9, 10, and 16 ff., of the month which would have been intercalated in the first year of the period to the last year of the preceding period, with the result that Periods 8 and 15 have eight intercalations each and Period 10 but six.

The goal toward which this experimentation was striving was apparently a system with the smallest limits of variability in the start of the year. Thus the limits for Nisanu 1 in Period 11 are April 26 in year 6 and March 22 in year 12, ranging over thirty-six days. April 26 was lowered to April 16 in Period 12 by shifting a second Addaru from year 5 to year 6. Similarly, March 22 of Period 11 and March 21 of Period 12 became April 20 in Period 13 by changing the second Ululu of year 12 to a second Addaru in year 11. Eventually the first actual cycle, Period 21, had as the limits for Nisanu 1 March 26 and April 21, involving only twenty-seven days.

<sup>4</sup> R. H. McDowell, *Coins from Seleucia on the Tigris* (Ann Arbor, 1935) pp. 147-53.

<sup>5</sup> A. T. Olmstead, "The chronology of Jesus' life," *Anglican Theological Review* XXIV (1942) 3 f.

<sup>6</sup> Kugler, *SSB* II 334 f. and 411-22; Sidersky, *ECAB*, pp. 29-33; cf. also F. H. Weissbach in *Hilprecht Anniversary Volume* (1909) pp. 281-90.

It was stated above that observation of the crescent determined the beginning of the month. This was certainly true in the early part of the time here dealt with. It resulted now and then in a twenty-eight-day month,<sup>7</sup> when two months of twenty-nine days came together and bad weather conditions resulted in giving thirty days to the first month. Whether for calendrical purposes calculation of the crescent ever replaced observation remains a problem whose solution must await new evidence.

### INTERCALARY MONTHS MENTIONED IN RECENTLY PUBLISHED TEXTS<sup>8</sup>

#### NABOPOLASSAR

<i>Ululu II</i> , 7th year	Dougherty, <i>GCCI</i> II 74 (month name somewhat damaged but certain because of 2 <sup>(KAN)</sup> that follows)
<i>Ululu II</i> , 10th year	<i>Ibid.</i> No. 50
<i>Ululu II</i> , 15th year	Contenau, <i>TCL</i> XII 19 <sup>9</sup>
<i>Addaru II</i> , 20th year	Dougherty, <i>GCCI</i> II 16; Contenau, <i>TCL</i> XII 21

#### NEBUCHADNEZZAR

<i>Addaru II</i> , 4th year	<i>VAS</i> VI 265 <sup>10</sup>
<i>Ululu II</i> , 7th year	Lutz, <i>UCP</i> IX 1, Part II, No. 10
<i>Ululu II</i> , 9th year	Krückmann, <i>NBRVT</i> , No. 197
<i>Addaru II</i> , 14th year	Contenau, <i>TCL</i> XII 35; Moore, <i>NBD</i> , No. 29 (date damaged, but confirmed by Contenau reference)
<i>Addaru II</i> , 23d year	Keiser, <i>LCE</i> , No. 126; Dougherty, <i>GCCI</i> I 45
<i>Addaru II</i> , 28th year	Lutz, <i>UCP</i> IX 1, Part I, No. 52
<i>Ululu II</i> , 31st year	Krückmann, <i>NBRVT</i> , No. 20; R. C. Thompson, <i>Catalogue of the Late Babylonian Tablets in the Bodleian Library</i> , Oxford (London, 1927) p. 3, A 91; p. 4, A 95

[*Ululu II*, 32d year]<sup>11</sup>

<sup>7</sup> See R. Campbell Thompson, *The Reports of the Magicians and Astrologers of Nineveh and Babylon in the British Museum* (London, 1900) II xliii.

<sup>8</sup> Italics indicate months either unknown to or not used by Kugler and Sidersky in their tables. Brackets ([ ]) indicate months rejected as impossible.

<sup>9</sup> Add here the *Ululu II* of year 15 discussed by Kugler, *SSB* II 418 f. He assigned it to the 15th year of Nebuchadnezzar; but that is disproved by the *Addaru II* listed below for the latter's 14th year. He also suggested Nabopolassar as an alternative.

<sup>10</sup> A broken text. In lines 1 and 2 "*Addaru II* of year 4" is preserved. Kugler, *SSB* II 418, argued that on the basis of elimination this text probably belongs to Nebuchadnezzar; other possibilities were Xerxes, Artaxerxes I, Artaxerxes II, Alexander the Great, and Seleucus I. The newly discovered intercalation dated to Xerxes' 5th year practically rules his 4th year out. All eleven names in the text are good Babylonian; hence it would be difficult to assign it to a later Persian ruler. It fits perfectly into the 4th year of Nebuchadnezzar and into the general chronological system.

<sup>11</sup> Kugler, *SSB* II 411, uses Strassmaier, *Nabuchodonosor*, No. 249, as proof for an intercalated *Ululu* in the 32d year of Nebuchadnezzar. The text, as given by Strassmaier, is



# PLATE I

Period	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Year	B.C. 747 728 709 690 671					652 633 614 595 576					557 538 519 500 481					462 443 424 405 386					367 348	
I							u				A	U	A	A								
II												U										
III	U								u	U	A	A	A	A	a		a	A	a		A	A
IV							U															
V								a	A	A	A											
VI							u				A	A	A	a	a		a	A	a	A	A	A
VII																						
VIII								A	A		A		a	A			A	a	a	A	A	A
IX							a	A				U	U									
X							U															
XI											U	U		A	a		a	A	a	A	A	A
XII							u	U	u													
XIII									U													
XIV							A	A	A		A	A	A	A	a		a	a	a	A	A	A
XV							U															
XVI								U	A	A	A	U	U	u			u	u	u	U	U	U
XVII																						
XVIII							U															
XIX								U	A						a		a	A	a	A	A	A

TABLE SHOWING POSITIONS OF BABYLONIAN INTERCALARY MONTHS IN RELATION TO NINETEEN-YEAR PERIODS

Addaru II, 33d year	Dougherty, <i>GCCI</i> I 117 and 125
Addaru II, 36th year	<i>Ibid.</i> Nos. 68, 98, and probably 82 (year 30+ $x$ ); II 268 (no king given, but tablet apparently belongs here; "36" and "Addaru II" are clear)
Ululu II, 41st year	Krückmann, <i>NBRVT</i> , Nos. 79, 153, 154; Dougherty, <i>GCCI</i> I 231 (year $x+11$ ), 248
Addaru II, 42d year	Dougherty, <i>GCCI</i> I 138, 155, 219, 225
<b>NERGAL-SHAR-USUR</b>	
Addaru II, acc. year	Krückmann, <i>NBRVT</i> , No. 129
Addaru II, 3d year	Contenau, <i>TCL</i> XII 70
<b>NABUNAID</b>	
[Addaru II, 2d year] <sup>12</sup>	
Addaru II, 3d year	Pohl, <i>NBRU</i> II 8; Dougherty, <i>REN</i> , Nos. 13 and 46
Addaru II, 6th year	Krückmann, <i>NBRVT</i> , No. 115
Ululu II, 10th year	Dougherty, <i>GCCI</i> I 291, 305, 338, 354; <i>idem</i> , <i>REN</i> , Nos. 19, 139, 212
Addaru II, 12th year	Moore, <i>NBD</i> , No. 55; Krückmann, <i>NBRVT</i> , No. 209 (broken date read as 11th year by Krückmann, but must be read as 12th on basis of known materials); Dougherty, <i>REN</i> , Nos. 152, 165, 175, 191, 203, 206, 210, 214, 223, 230, 235; <i>idem</i> , <i>GCCI</i> II 371 (no king's name preserved on tablet, but year 12 places it here)
Addaru II, 15th year	Dougherty, <i>REN</i> , No. 224
<b>CYRUS</b>	
Addaru II, 6th year	Tremayne, <i>RECC</i> , No. 47 (year traces fit 6 but not 3)
<b>CAMBYSES</b>	
Ululu II, acc. year	Tremayne, <i>RECC</i> , No. 98; Dougherty, <i>GCCI</i> II 116, 117, 118, 218; J. B. Nies and C. E. Keiser, <i>Historical, Religious and Economic Texts and Antiquities</i> ("Babylonian Inscriptions in the Collection of James B. Nies" II [New Haven, 1920]) No. 130
Ululu II, 3d year	Tremayne, <i>RECC</i> , No. 155; Krückmann, <i>NBRVT</i> , No. 161 (broken date, read as " $x+1$ " by Krückmann, must be read as "3" on basis of known intercalated months); Contenau, <i>TCL</i> XIII 155

dated in lines 4 and 5 to Arahsmnu (8th month), 15th day, 32d year (the "32" is damaged slightly) of Nebuchadnezzar. Kugler's date is based on mention of an Ululu II at the end of the last line (line 39) unaccompanied by day, year, or king. Since lines 6, 13, 15, 31 refer to year 30 and line 37 refers to the 25th of Addaru, the Ululu II in line 39 cannot be used to prove an intercalation in year 32. This tablet is a summary, and the various dates within the text all seem to be earlier than year 32. Hence we consider the Ululu II to be that of year 31 (see above).

<sup>12</sup> Pohl, *NBRU* I 20, has an Addaru II in the 2d year of Nabunaid. This is impossible, since other texts place an Addaru II in the 1st and 3d years. By addition of one wedge the year may be read either as "3" or as "12"; or by omission of one wedge it may be read as "1." Error of either scribe or copyist is evident. Reading as "3" seems preferable to us.

Addaru II, 5th year	Pohl, <i>NBRU</i> I 77
<b>DARIUS I</b>	
Addaru II, acc. year	Pohl, <i>NBRU</i> II 10 (Pohl's Ululu II should be corrected to read Addaru II; see A. Poebel in <i>AJSL</i> LVI [1939] 134, n. 41) and 11
Ululu II, 3d year	Krückmann, <i>NBRVT</i> , No. 165
Addaru II, 16th year	Contenau, <i>TCL</i> XIII 193; unpublished text Persepolis 4303 (on all the Persepolis references under Darius I see R. T. Hallock in <i>JNES</i> I [1942] 231, n. 5)
Ululu II, 19th year	Unpublished texts Persepolis 3158 (Poebel in <i>AJSL</i> LV [1938] 136 f.) and 718 (Hallock)
Addaru II, 22d year	Unpublished texts Persepolis 11424 and (slightly doubtful) 1899, 5968, and 9916 (Hallock)
Addaru II, 24th year	Unpublished texts Persepolis 5257, 9637, and 10134 (Hallock)
Addaru II, 32d year	Unpublished text Teheran, Iran, PT 4 639 (courtesy of Dr. G. G. Cameron)
<b>XERXES</b>	
Ululu II, 2d year <sup>13</sup>	Unpublished texts Teheran, Iran, PT 4 158 and PT 4 745 (Cameron)
Addaru II, 5th year	Unpublished text Teheran, Iran, PT 4 996 (Cameron)
Addaru II, 12th year	Unpublished text Oriental Institute A 23304 (Cameron)

## NOTES ON THE UNATTESTED INTERCALARY MONTHS

The references in the first column are given by period, year of period, and Julian calendar year in which Babylonian year begins. All unattested intercalary months not noted below may be regarded as highly probable.

7/IX/625	<i>a</i> is probable, <i>u</i> possible, year very probable. All dates from 9/18/625 to 3/14/624 might be a month later.
7/XII/622	<i>u</i> and year are very probable.
8/I/614	<i>u</i> is probable, <i>a</i> possible, year very probable. All dates from 10/16/614 to 4/11/613 might be a month earlier.
8/VI/609	<i>u</i> is probable, <i>a</i> in this or the preceding year possible. All dates from 3/28/609 to 9/21/609 might be a month later. All dates from 10/20/609 to 4/16/608 might be a month earlier.
9/III/593	<i>u</i> and year are very probable.
9/V/591	<i>a</i> and year are very probable.
9/XII/584	<i>u</i> and year are very probable.
14/VIII/493	<i>a</i> is probable, <i>u</i> in the following year possible. All dates from 4/23/492 to 10/17/492 might be a month earlier.
15/XIX/463	<i>a</i> is certain but could be in the following year. All dates from 4/22/462 to 4/11/461 might be a month earlier.
16/XIX/444	<i>a</i> is certain but could be in the following year. All dates from 4/22/443 to 4/11/442 might be a month earlier.

<sup>13</sup> For correction of Kugler's tentative reading of year 7 (*op. cit.* p. 413) to year 2 see Cameron in *AJSL* LVIII (1941) 323, n. 40.

## II

### KINGS' REIGNS

The general basis for the chronology of the period here treated is furnished by the Ptolemaic Canon, with help from classical sources. Cuneiform chronicles and lists of kings have also been of considerable help in checking and improving on the general framework of chronology. The numerous cuneiform economic texts often furnish an accurate check on the lengths of reigns. Since these texts cover the larger part of the period, from 626 B.C. to the middle of the second century B.C., they are of prime importance. Dates from cuneiform astronomical texts are especially helpful for the chronology of the third and second centuries B.C.

The foundations for a study of this kind were laid by Kugler in his monumental studies *Sternkunde und Sterndienst in Babel* (1907-35) and *Von Moses bis Paulus* (1922) and by Sidersky's *Étude sur la chronologie assyro-babylonienne* (1916). For seventh-century chronology Streck's *Assurbanipal* (1916) is also essential. Important syntheses were achieved by Olmstead, "The Chaldaean dynasty," *Hebrew Union College Annual* II (1925) 29-55, and "Cuneiform texts and Hellenistic chronology," *Classical Philology* XXXII (1937) 1-14.

Recent studies which have helped to clarify Persian chronology are these:

George G. Cameron, "Darius and Xerxes in Babylonia," *AJSL* LVIII (1941) 314-25.  
Waldo H. Dubberstein, "The chronology of Cyrus and Cambyses," *AJSL* LV (1938) 417-19.

A. T. Olmstead, "Darius and his Behistun inscription," *ibid.* pp. 392-416.

Richard A. Parker, "Darius and his Egyptian campaign," *AJSL* LVIII 373-77.

Richard A. Parker, "Persian and Egyptian chronology," *ibid.* pp. 285-301.

Arno Poebel, "Chronology of Darius' first year of reign," *AJSL* LV 142-65 and 285-314.

Arno Poebel, "The duration of the reign of Smerdis, the Magian, and the reigns of Nebuchadnezzar III and Nebuchadnezzar IV," *AJSL* LVI (1939) 121-45.

Arno Poebel, "The names and the order of the Old Persian and Elamite months during the Achaemenian period," *AJSL* LV 130-41.

The chronological difficulties connected with the period from Assur-bani-pal's accession to the fall of Assyria, insofar as they touch Babylonia, and the problems of ordering Babylonian chronology from Alexander to Seleucus I have been treated in a study by Dubberstein which is to appear in *JNES* II (1943).

Although Kugler (*SSB* II 438-63), Clay (*BE* VIII 1, pp. 4-14), and others have given lists of kings and attempted to fix their reigns more exactly, most of such lists cover only parts of the entire period with which we are concerned. Moreover, the numerous economic texts published in the last thirty years have made it possible to improve on their efforts in certain cases by correcting their dates, especially those preceding the fourth century B.C. For the Seleucid and Arsacid periods less improvement is possible, but we have given a full list of rulers in order that our tables may be complete.<sup>1</sup>

#### NABOPOLASSAR

##### *Evidence for End of Kandalanu's Reign*

II/13/21, Sippar (J. Oppert in *ZA* VII [1892] 341).

VIII/2/22 (Oct. 30, 626) (this date in year 22 "after" [*arki*; not "of"] Kandalanu is cited by Oppert in Académie des inscriptions et belles-lettres, *Comptes rendus*, 4. sér., XXVI [1898] 418, from a text communicated to him by T. G. Pinches; see also *ibid.* p. 583).

According to this last (unpublished) tablet, unless its wording means that it was written after Kandalanu's death, the accession year of Nabopolassar began between November, 626, and March, 625.

##### *Evidence for Beginning of Nabopolassar's Reign*

"After Kandalanu, in the accession year of Nabopolassar" (chronicle extract BM 86379 [published by Smith, *BHT*, pp. 22-26 and Pl. IV] rev. 4).

II/23/1 (May 15, 625), Uruk (Pohl, *NBRU* II 4).

II/14/2 (May 25, 624), Babylon (*VAS* VI 3).

##### *Evidence for End of Nabopolassar's Reign*

II/—/21, Sippar (J. Strassmaier in *ZA* IV [1889] 121 f. and 145-47, No. 19).

II/2/21 (May 12, 605), Uruk (Lutz, *UCP* IX 1, Part II, No. 4).

V/1/21 (Aug. 8, 605) (Moore, *NBD*, No. 35).<sup>2</sup>

V/1/21, KUR.A.DAN.ŠU (unpublished text, Oriental Institute A 5302).

The Strassmaier text has Nabopolassar ruling in the 2d month and Nebuchadnezzar (see below) recognized in the 4th month. In both instances the day of the month is not given. The text published by Moore and the unpublished text are clearly dated to the 5th month. Possibly these texts are from remoter towns, where the change in kings during the 4th month had not yet been reported. If this is true, then the death of Nabopolassar occurred late in July, 605.

#### NEBUCHADNEZZAR II

##### *Evidence for Beginning of Reign*

IV/—/acc. (month IV ends Aug. 7, 605), Sippar (Strassmaier, *loc. cit.*).

VII/5/acc. (Oct. 10, 605) (Strassmaier, *Nabuchodonosor*, No. 2).

<sup>1</sup> Wherever the city is not given in this list, it is missing on the tablet also, and the source cannot be established by other data. All dates are B.C. Missing days, months, or years are indicated by means of dashes.

<sup>2</sup> Editor gives Babylon as place of origin, but evidence to confirm this seems lacking.

*Evidence for End of Reign*

- VI/14/43 (Sept. 25, 562), Uruk (Pohl, *NBRU* I 18).  
 VI/26/43 (Oct. 7, 562), Uruk (Contenau, *TCL* XII 58).

The first tablet dated to Amel-Marduk (see below) comes from Sippar(?) and is dated on the same day as the last tablet of Nebuchadnezzar from Uruk. Accordingly Nebuchadnezzar died during the first days of October, 562.

## AMEL-MARDUK

*Evidence for Beginning of Reign*

- VI/26/acc. (Oct. 7, 562), Sippar? (B. T. A. Evetts, *Inscriptions of the Reigns of Evil-Merodach, Neriglissar, and Laborosoarchod* ["Babylonische Texte" III] Heft 6 B (Leipzig, 1892)) Evil-Merodach, No. 1).  
 VII/19/acc. (Oct. 30, 562), Babylon (*ibid.* No. 2).

*Evidence for End of Reign*

- V/4/2 (July 25, 560), Babylon (*ibid.* No. 24).  
 V/17/2 (Aug. 7, 560) (Clay, *BE* VIII 1, No. 34).

Since the first text dated to Nergal-shar-usur was written at Babylon six days after the Clay text, the date of Amel-Marduk's death may be fixed between August 7 and August 13, 560.

## NERGAL-SHAR-USUR

*Evidence for Beginning of Reign*

- V/23/acc. (Aug. 13, 560), [Babylon?] (*VAS* III 40).  
 VI/12/acc. (Sept. 1, 560), Babylon (Evetts, *op. cit.*, Neriglissar, No. 1).

*Evidence for End of Reign*

- I/2/4 (Apr. 12, 556), Shahrinu (*ibid.* Nos. 68 and 69).  
 Nergal-shar-usur's death occurred in late April or early May, 556.

## LABASHI-MARDUK

*Evidence for Beginning of Reign*

- II/12/acc. (May 22, 556), Sippar? (Evetts, *op. cit.*, Laborosoarchod, No. 2).  
 II/14/acc. (May 24, 556) (*ibid.* No. 3).

*Evidence for End of Reign*

- III/9/acc. (June 17, 556) (Strassmaier in *Actes du huitième Congrès international des orientalistes, tenu en 1889 à Stockholm et à Christiania*, 2. partie [Leide, 1893] section sémitique [B] at end, No. 15).  
 III/12/acc. (June 20, 556), Sippar? (Evetts, *op. cit.*, Laborosoarchod, No. 1).

Labashi-Marduk seems to have been recognized as king only in May and June, 556, and even then possibly not throughout Babylonia (see under NAHUNAI). Berossus (frag. 14) *apud* Josephus *Against Apion* i. 20 states that Labashi-Marduk ruled nine (ἐννέα) months. If Berossus' own manuscript used a numeral instead of the spelled-out number, confusion between  $\theta$  (9) and  $\beta$  (2) could easily have arisen; hence the original text may have said 2 months.

## NABUNAIID

*Evidence for Beginning of Reign*

- II/15/acc. (May 25, 556), NA.ŠU.ŠA.KU.NA (Clay, *BE* VIII 1, No. 39).  
 III/1/acc. (June 9, 556), Sippar? (*VAS* VI 65; see Kugler, *SSB* II 405-8).  
 III/18/acc. (June 26, 556), Sippar (Strassmaier, *Nabonidus*, No. 1).  
 III/23/acc. (July 1, 556), Uruk (Dougherty, *REN*, No. 1).  
 III/26/acc. (July 4, 556), Sippar (Strassmaier, *Nabonidus*, No. 2).

These texts imply, unless they are miscopied, that Nabunaid was recognized as king by some Babylonians practically as early as was Labashi-Marduk (only three days later). Nabunaid would then according to this have been a contender for the throne almost from the death of Nergal-shar-usur. Certainly he was sole ruler of Babylonia by the close of June, 556.

*Evidence for End of Reign*

- VI/3/17 to VI/28/17 (Aug. 31 to Sept. 25, 539), chiefly from Babylon and Sippar (Strassmaier, *Nabonidus*, Nos. 1046-52).  
 VI/6/17 (Sept. 3, 539), Uruk (Contenau, *TCL* XII 121; line 19 reads VI/6/18, but in line 1 the date is given as VI/6/17; year 18 is impossible, so we assume either a scribal error or an error by Contenau).  
 VII/8/17 (Oct. 5, 539), Uruk (Dougherty, *REN*, No. 189).  
 VII/17/17 (Oct. 14, 539), Uruk (Dougherty, *GCCI* I 390).

The Nabunaid Chronicle (last published by Smith, *BHT*, pp. 98-123 and Pls. XI-XIV) iii 14-18 states that Sippar fell to Persian forces VII/14/17 (Oct. 11, 539), that Babylon fell VII/16/17 (Oct. 13), and that Cyrus entered Babylon VIII/3/17 (Oct. 29). This fixes the end of Nabunaid's reign and the beginning of the reign of Cyrus. Interestingly enough, the last tablet dated to Nabunaid from Uruk is dated the day after Babylon fell to Cyrus. News of its capture had not yet reached the southern city some 125 miles distant. Strassmaier, *Nabonidus*, No. 1054, has the date VIII/10/17; but the month sign is shaded, and in view of known facts this date cannot be accepted. No. 1055 is dated to IX/—/17 by Strassmaier on the basis of the giving of the *maššartum* for the IX/—/17 of Nabunaid (lines 2-4). Since a *maššartum* was often given some months in advance (see Strassmaier, *Nabonidus*, Nos. 219, 346, 361) this tablet is useless for exact dating purposes. This fact was recognized by Kugler, *SSB* II 388 f., but not by Clay, *BE* VIII 1, pp. 4 f.

## CYRUS

*Evidence for Beginning of Reign*

- VII/14/acc. (Oct. 11, 539), Sippar is taken by Persian forces.  
 VII/16/acc. (Oct. 13), Babylon falls.  
 VIII/3/acc. (Oct. 29), Cyrus enters Babylon.

These dates are from the Nabunaid Chronicle (see under NABUNAIID).

- VII/—/acc. (not later than Oct. 26, 539) (Strassmaier, *Cyrus*, No. 1).  
 VIII/24/acc. (Nov. 19, 539) (*ibid.* No. 2).  
 X/21/acc. (Jan. 14, 538), Uruk (Tremayne, *RECC*, No. 1).

*Evidence for End of Reign*

IV/7/9 (June 28, 530), Babylon (Strassmaier, *Cyrus*, No. 340).

IV/27/9 (July 18, 530), Babylon (*ibid.* No. 341).

V/13/9 (Aug. 2, 530), Nippur (Clay, *BE* VIII 1, No. 74).

V/23/9 (Aug. 12, 530), Borsippa (*VAS* V 42).

Coregency of Cyrus and Cambyses probably began Nisanu 1 (March 26), 530; see Kugler, *SSB* II 397–401, and Dubberstein in *AJSL* LV (1938) 417–19. The death of Cyrus while he was fighting on the northeastern front was probably reported in Babylon in August, 530, whereupon Cambyses was recognized as sole king.

## CAMBYSES

*Evidence for Beginning of Reign*

VI/12/acc. (Aug. 31, 530), Babylon (Strassmaier, *Cambyses*, No. 1).

VI/16/acc. (Sept. 4, 530), Babylon (*ibid.* No. 2).

VI/20/acc. (Sept. 8, 530), Babylon (*ibid.* No. 3).

*Evidence for End of Reign*

I/4? and 5/8 (Mar. 30? and 31, 522), Sippar (*ibid.* Nos. 407 and 408).

I/12/8 (Apr. 7, 522), Uruk (Dougherty, *GCCI* II 106).

I/10+ $x$ /8 (Apr. 5+ $x$ , 522), Nippur (Clay, *BE* VIII 1, No. 71).

I/23/8 (Apr. 18, 522), Shahrinu (Strassmaier, *Cambyses*, No. 409).

For the period from the death of Cambyses to the 2d year of Darius I consult the articles listed in the introduction to this section. Those articles are essential to an understanding of these complex years. As the evidence indicates, Cambyses was still recognized in April, 522. The Behistun inscription, § 11, seems to indicate that he did not die until after July 1, 522 (after IV/9/8). However, his successor, Bardiya, was certainly recognized in Babylonia already in months I and II (see under BARDIYA).

## BARDIYA (SMERDIS, GAUMATA)

*Evidence for Beginning of Reign*

XII/14/— (Mar. 11, 522), Bardiya revolts in Persia (Behistun, § 11).

I/19/1 (Apr. 14, 522), Hubadishu? (Strassmaier in *ZA* IV 123–25 and 148 f., No. 2).

I/—/acc. (II began Apr. 25, 522), Babylon (*ibid.* pp. 123 and 147 f., No. 1).

III/6/acc. (May 30, 522), Babylon (*VAS* IV 85).

III/23/1 (June 16, 522), Sippar (Strassmaier in *ZA* IV 125 f. and 149, No. 3).

IV/9/— (July 1, 522), entire empire seized by Bardiya (Behistun, § 11).

On the confusion of accession year and year 1 in this reign see Cameron in *AJSL* LVIII (1941) 314 f.

*Evidence for End of Reign*

VI/20/1 (Sept. 9, 522), Babylon (Strassmaier in *ZA* IV 127 f. and 151 f., No. 8).

VII/1/1 (Sept. 20, 522), Babylon (*ibid.* pp. 128 and 152, No. 9).

VII/10/— (Sept. 29, 522), Bardiya killed by Darius (Behistun, § 13).



## NEBUCHADNEZZAR III (NIDINTU-BEL)

*Evidence for Beginning of Reign*

VII?/14/— (Oct.? 3, 522), Sippar (Strassmaier, *Nabuchodonosor*, No. 1, gives as 4th month; G. G. Cameron in *AJSL* LVIII 317 f. suggests probable emendation to 7th).

VII/17/— (Oct. 6, 522), Babylon (Strassmaier, *Nabuchodonosor*, No. 3).

VII/20/— (Oct. 9, 522), Babylon (*ibid.* No. 4).

*Evidence for End of Reign*

IX/7/— (Nov. 24, 522), Borsippa (Krückmann, *NBRVT*, No. 6).

IX/20/— (Dec. 7, 522), Babylon (Strassmaier, *Nabuchodonosor*, No. 9).

IX/21/— (Dec. 8, 522), Babylon (*ibid.* No. 10).

IX/26/— (Dec. 13, 522), Darius defeats Nebuchadnezzar III at the Tigris River (Behistun, § 18).

X/2/— (Dec. 18, 522), Darius defeats Nebuchadnezzar at the Euphrates River near Zazannu. Shortly thereafter he captures and kills Nebuchadnezzar in Babylon (Behistun, §§ 19 and 20).

## DARIUS I

*Evidence for Beginning of Reign*

X/6, 24, 25 and XI/6/acc. (Dec. 22, 522, and Jan. 9, 10, and 21, 521), Babylon (F. H. Weissbach, *Babylonische Miscellen* [Leipzig, 1903] Pl. 15, No. 3). These four dates are mentioned in the text, which is not dated but was probably written in month XI. Hence this text does not prove conclusively that Darius already held Babylon on December 22, 522.

XI/20/acc. (Feb. 4, 521), Sippar (Strassmaier, *Darius*, No. 1).

XI/25/acc. (Feb. 9, 521), Kutha (unpublished text, Oriental Institute A 729).

Darius I continued to be recognized as king in Babylonia until VI/1/1 (Sept. 8, 521). Then came the revolt of Nebuchadnezzar IV.

*Evidence for Darius' Rule in Babylonia before the Revolt of Nebuchadnezzar IV*

V/17/1 (Aug. 26, 521), Sippar (Strassmaier, *Darius*, No. 17).

V/18/1 (Aug. 27, 521), Sippar (*ibid.* No. 18).

VI/1/1 (Sept. 8, 521), Sippar (*ibid.* No. 19).

Both Poebel in *AJSL* LVI (1939) 135 and 138 and Cameron in *AJSL* LVIII (1941) 318 f. accept Strassmaier, *Darius*, No. 20, as dating to an unknown day of month VII, year 1. Actually, the year number is damaged and might easily have been 2 or 3. This lone tablet cannot prove that Darius held Sippar in month VII, year 1, especially since there is contradictory evidence (see under NEBUCHADNEZZAR IV).

## NEBUCHADNEZZAR IV (ARAKA)

*All Tablet Evidence for Nebuchadnezzar IV*

VI/2/1 (Sept. 9, 521), Uruk (Contenau, *TCL* XII 22).

VI/14/1 (Sept. 21, 521), Babylon (Strassmaier, *Nabuchodonosor*, No. 13).

VI/15/1 (Sept. 22, 521), Borsippa (Krückmann, *NBRVT*, No. 150).

- VI/24/1 (Oct. 1, 521), Sippar (Strassmaier, *Nabuchodonosor*, No. 15).  
 VII/1/1 (Oct. 8, 521), near Uruk (Contenau, *TCL* XII 23).  
 VII/13/1 (Oct. 20, 521), Uruk (Keiser, *LCE*, No. 99).  
 VII/16/1 (Oct. 23, 521), Babylon (Strassmaier, *Nabuchodonosor*, No. 17).  
 VII/27/1 (Nov. 3, 521), Sippar (*ibid.* No. 18).  
 VIII/22/1 (Nov. 27, 521), capture of Nebuchadnezzar IV by Persian forces (Behistun, §§ 49 and 50).

Cameron, *loc. cit.*, accepts Strassmaier, *Nabuchodonosor*, No. 12, as evidence that Nebuchadnezzar IV had already revolted in month IV (before Aug. 10, 521) and was recognized in Babylon. The month sign and the year sign are damaged; hence this tablet's date remains uncertain. The uncertainty is increased when the list of tablets dated to Nebuchadnezzar IV (given above) is inspected. The rather closely bunched tablets begin September 9 and carry through to November 3. Between the first certain tablet and the tablet from month IV used by Cameron there is a lacuna of a full month and possibly two months.

The following interpretation is offered: After the defeat and death of Nebuchadnezzar III late in December, 522, Darius I was recognized as ruler of Babylonia until the beginning of September, 521. Early in September Nebuchadnezzar IV revolted and was recognized as king of Babylonia until late in November, 521. The army sent by Darius achieved the defeat and capture of Nebuchadnezzar on November 27, 521.

#### DARIUS I

##### *Evidence for Reacceptance of Darius after Defeat of Nebuchadnezzar IV*

- IX/20/1 (Dec. 25, 521), Borsippa (Clay, *BE* VIII 1, No. 103).  
 X/5/1 (Jan. 8, 520), Sippar (Strassmaier, *Darius*, No. 22).  
 X/22/1 (Jan. 25, 520), Babylon (*VAS* IV 89).

##### *Evidence for End of Reign*

- VI/13/36 (Sept. 24, 486), Dilbat (*VAS* III 165).  
 VI/19/36 (Sept. 30, 486), Dilbat (*VAS* V 110).  
 VII/27?/36 (Nov. 7?, 486), Borsippa (*VAS* IV 180). The day numeral is damaged and may have been 17 instead of 27, though there seems to be space for a lost 10.

According to this evidence Darius I died in November, 486.

#### XERXES

##### *Evidence for Beginning of Reign*

- VIII/22/acc. (Dec. 1, 486), Borsippa (*VAS* V 117).  
 X/7/acc. (Jan. 14, 485) (Strassmaier in *Actes* ..., No. 16)

*VAS* VI 177, from the accession year of Xerxes, has the month sign damaged. It might be IX but more probably is XII. *VAS* VI 182, from Borsippa, is dated to month XI of Xerxes; day and year are broken away. In lines 7 f. there is a reference to month IX of year 36. While no king is mentioned, it is certainly Darius I, who presumably was succeeded by Xerxes in month VIII. It seems

probable that the date IX/36 given in this contract is anticipatory, in connection with the delivery of specified quantities of malt beverage. Hence it should not be used to determine the length of the reign of Darius I.

#### BEL-SHIMANNI, SHAMASH-ERIBA

Cameron in *AJSL* LVIII 319-25 has shown the probability that the revolts of Bel-shimanni and Shamash-eriba fall into the 4th year of Xerxes' reign. The revolts were of short duration but apparently brought about a change in royal titulary on Babylonian tablets and possibly the destruction of Babylon. The evidence for the length of the reign of each of these two kings has been presented by Cameron. Here it is merely abstracted and assigned to the 4th year.

Tablet evidence for the rule of Bel-shimanni includes only the period from V/10?/acc. (Aug. 8?, 482) to VI/1/acc. (Aug. 29, 482).

Tablet evidence for the rule of Shamash-eriba includes the period from VI/25/acc. (Sept. 22, 482) to VII/23/acc. (Oct. 20, 482).

#### XERXES

##### *Evidence for End of Reign*

VI/10/16 (Sept. 24, 470), *Bîtu eš-šû* (suburb of Borsippa) (*VAS* III 184).

X-XII/—/20 (XII ends Mar. 24, 465), Persepolis (unpublished text, Oriental Institute A 23253 [courtesy of Professor Cameron]).

There are no known cuneiform texts dated to year 21. However, Papyrus No. 6 (A. Cowley, *Aramaic Papyri of the Fifth Century B.C.* [Oxford, 1923]) is dated IX/18, "year 21, the accession year of Artaxerxes" (Jan. 3, 464), Assuan, Egypt. This makes it certain that Xerxes had died and been succeeded by Artaxerxes before the end of 465.

#### ARTAXERXES I

##### *Evidence for Beginning of Reign*

III/—/1 (III begins June 12, 464), Persepolis (unpublished text, Teheran, Iran, PT 4 441 [Cameron]).

I-IV/—/1 (IV ends Aug. 9, 464), Persepolis (unpublished text, Oriental Institute A 23324 [Cameron]).

VII/4/1 (Oct. 12, 464), Nippur (Krückmann, *NBRVT*, No. 142).

VII/5/1 (Oct. 13, 464), Borsippa (Clay, *BE* VIII 1, No. 121).

##### *Evidence for End of Reign*

IX/12/41 (Dec. 24, 424), Nippur (Clay, *BE* IX 108).

XI/17/41 (Feb. 26, 423), *TAR-ba-a-a* (Clay, *BE* IX 109).

Clay in *BE* X, page 2, suggests that the last date may incorporate a scribal error, in view of the evidence for the beginning of the reign of Darius II given below. It is also possible that news of the change in rulers had not yet reached the little village near Nippur. Clay (*loc. cit.*) refers also to an unpublished text, C.B.M. 5310, dated to Artaxerxes, XI/3/41. However, a tablet bearing the number C.B.S. 5310 (presumably the same text) was published by Clay himself a few

years later (*PBS* II 1, No. 17). Its date is clearly XI/3/1, Darius. Since there seems to be some confusion, the date from the unpublished text cannot be used.

There is no evidence in cuneiform tablets accepted as contemporary that Xerxes II was ever acknowledged as king in Babylonia. Artaxerxes I was recognized as king until the end of December, 424, and possibly even as late as the following February. Certainly Darius II was king, and tablets were dated to him, by the middle of February, 423.

## DARIUS II

### *Evidence for Beginning of Reign*

XI/4/acc. (Feb. 13, 423), Babylon (Clay, *BE* X 1 [republished by Krückmann, *NBRVT*, No. 29]).

XI/15/acc. (Feb. 24, 423), Nippur (Clay, *BE* X 2 and 3).

XII/17/acc. (Mar. 28, 423), Nippur (Clay, *BE* X 5).

Two tablets have unusual date formulas. Clay, *BE* X 4 (republished by Krückmann, *NBRVT*, No. 216), and Clay, *BE* VIII 1, No. 127, are dated "41st year, accession year, 12th month" (latter text wrongly "51st year"), the 14th and 20th days respectively of "Darius, king of lands." An obvious interpretation is that the scribes began to write the accustomed "41" and then, remembering that a new king was ruling, merely added "accession year" and continued correctly with the rest of the date formula.

### *Evidence for End of Reign*

II?/29/13 (May? 25, 411), Nippur (Clay, *BE* X 132).

XI/24/13 (Feb. 10, 410), Assuan, Egypt (Cowley, *op. cit.* No. 28).

There is no evidence from contemporary business documents for the years 14 to 19 of Darius II, nor are there dated tablets from the accession year of Artaxerxes II. Artaxerxes II was recognized as king before April, 404.

The lengths of the kings' reigns from here on are established chiefly by use of the well known Ptolemaic Canon, of the Saros Tablet (Strassmaier in *ZA* VII [1892] 198–201 and in *ZA* VIII [1893] 106–8; Kugler, *SSB* II 363–66), and of the valuable Saros Canon (Joseph Epping and Strassmaier in *ZA* VIII 149–78 and Strassmaier in *ZA* X [1895] 64–69; photographs and a new transliteration were made available through the courtesy of Professor Otto Neugebauer). Additional chronological information from cuneiform texts as well as from Greek sources was quoted and used by Kugler, *SSB* II 362–438. It has not been thought necessary to repeat evidence of a general character for the lengths of reigns. Our conversion tables indicate the years assigned to the several rulers on the basis of the materials listed above.

## ARTAXERXES II

### *Evidence for Beginning of Reign*

VII/28/1 (Oct. 31, 404), Nippur (Clay, *BE* IX 1).

### *Evidence for End of Reign*

VIII/10/46 (Nov. 24, 359), Babylon (*VAS* VI 186; the year numeral is damaged slightly but was read as "46" by Arthur Ungnad).

Artaxerxes II died and was succeeded by Artaxerxes III between late November, 359, and April, 358.

#### ARTAXERXES III

Accession date indicated by evidence given under ARTAXERXES II. No contemporary cuneiform documents help to establish his twenty-one years of rule, which ended in 338/37.

#### ARSES

No contemporary evidence is available for his rule of two years (338/37 to 336/35). He is recognized in the lists referred to under DARIUS II.

#### DARIUS III

No certain contemporary evidence for his rule of five years. See references under DARIUS II. The Ptolemaic Canon gives Darius III a four-year rule in Egypt. Cuneiform evidence gives Darius III five years in Babylonia.

#### ALEXANDER THE GREAT

Alexander was recognized in Egypt probably shortly after his invasion, late in 332. He was recognized in Babylon after Gaugamela in October, 331. Cuneiform evidence for the period of Alexander is confused, since two systems of dating were used. One system reckoned year 1 of Alexander as beginning April 3, 330; the other counted from his Macedonian accession, with year 1 as 336, since Macedonian usage did not have an "accession year." The few dated business tablets<sup>3</sup> are not decisive in determining contemporary practice.

#### PHILIP ARRHIDAEUS

Recognized as king after Alexander's death, in the summer of 323. The Saros Canon and the Diadochi Chronicle (published by Smith, *BHT*, pp. 124-49 and Pls. XV-XVII) both count 323 as his year 1. The Diadochi Chronicle records events up to and including his 8th year (316). This dating is borne out by the business documents. The last document dated to Philip is of V/20/8 (Aug. 13, 316), Uruk (Contenau, *TCL* XIII 249). The Saros Canon, which is not contemporary, recognizes Antigonus as ruling in 317. The Saros Tablet, likewise not contemporary, apparently has the rule of Antigonus beginning in 316. Since Antigonus is never given the title of "king" in contemporary documents but is always called *rab uqu/a* ("general"), he should not be placed in the list of official kings. See on Philip and

<sup>3</sup> Three listed by Krückmann, *BRVU*, p. 20. But Olmstead in *Classical Philology* XXXII (1937) 4 says: "We have no published cuneiform records from Alexander the Great; those formerly so attributed come from the reign of his son of the same name." See too Dubberstein's article to appear in *JNES* II (1943). See also the references under DARIUS II. Alexander's death probably occurred on the 1st of Simanu (June 13), 323. With Alexander the well known device of the "accession year" disappears from Babylonian usage, and the part of the regnal year remaining after the death of the previous ruler is reckoned as "year 1" of his successor.

his successors Krückmann, *BRVU*, pp. 20 f.; T. G. Pinches in *PSBA* VI (1883/84) 204; Sidney Smith in *RA* XXII (1925) 179-97; and the forthcoming article by Dubberstein in *JNES* II.

#### ALEXANDER (II), SON OF ALEXANDER

Recognized as the successor of Philip in 316, which was year 8 for Philip and automatically became Alexander's year 1, even though Antigonus remained the recognized authority behind the king. The Diadochi Chronicle makes it certain that Alexander was the official king up to his 9th year (308), and Pinches in *PSBA* VI 204 refers to the existence of dated documents of his 10th year (307/6). This dating is valid despite the Greek evidence, which indicates that Alexander and his mother were murdered probably in 310/9. Apparently the fiction of kingship was carried on after the death of the young Alexander.

#### SELEUCUS I Nicator

In Syria Seleucus I began his official reign in the autumn of 312, shortly after he had taken Babylon. In Babylonia the fiction of the royal house of Macedonia continued as above indicated until some time in 307/6, possibly even later. However, when documents were dated to Seleucus I (earliest published text I/3/8 [Apr. 16, 304], *CT* IV [29 d]) in Babylonia, the first year of the king was officially reckoned as having begun on New Year's Day, April 3, 311, a few months after Seleucus had conquered Babylon.

The official dating in Babylonia successively to Darius III, Alexander, Philip Arrhidaeus, Alexander (II), son of Alexander, and Seleucus I closely resembles the pattern found in Egypt, where dating was carried on in the name of the dead Alexander, son of Alexander, as late as the beginning of 304. Beginning in 304, Ptolemy, who, like Seleucus, had held actual rule for some years previously, began dating in his own right also.<sup>4</sup> This very close parallel helps measurably to establish the sequence as set forth above.

#### SELEUCID ERA

Beginning with Seleucus I the Babylonian scribe, who still wrote cuneiform, made one further innovation. He now not only had no "accession years," but he dated continuously after 311, according to the era of Seleucus.<sup>5</sup> The beginnings and ends of reigns cannot always be determined with the exactitude which was possible in the earlier periods. However, the nineteen-year cycle had long been fixed, and there is no difficulty in establishing the calendar or in translating Seleucid or Arsacid dates into Julian dates.

With few exceptions all known economic texts have been listed by Krückmann, *BRVU*, pp. 20-23. Kugler in his extensive *SSB* has covered most of the chronological material which can be extracted from the astronomical texts. Olmstead in *Classical Philology* XXXII (1937) 1-14; N. C. Debevoise, *A Political History of*

<sup>4</sup> For the Egyptian evidence see T. C. Skeat in *Mizraim* VI (1937) 7-40.

<sup>5</sup> In the Macedonian calendar the Seleucid era began with Dios 1 (Oct. 7), 312 B.C.; in the Babylonian it began with Nisanu 1 (Apr. 3), 311 B.C.

*Parthia* (Chicago, 1938); and Kugler, *SSB* II 438-63 and *Von Moses bis Paulus* (Münster, 1922) pp. 309-44, have combined and ordered our knowledge of the chronology of this period.

Using the cuneiform evidence presented in these studies, we offer this summary of the beginnings and ends of the reigns of Seleucid rulers. Where references for earliest and latest dates are already given in Kugler, *Von Moses bis Paulus*, or in Krückmann, *BRVU*, merely the author's name is indicated. New references are given in full.

#### SELEUCUS I

##### *Latest Date*

XII/2/19 (Mar. 5, 292) (Kugler).

#### SELEUCUS I and ANTIOCHUS I SOTER

##### *Earliest Date*

IX/20/20 (Dec. 13, 292) (Kugler).

##### *Latest Date*

IX/10/31 (Dec. 2, 281) (Kugler).

#### ANTIOCHUS I and Seleucus

##### *Earliest Date*

Year 32, no month, no day (Apr. 19, 280-Apr. 7, 279) (Kugler).

##### *Latest Date*

XII/20/43 (Mar. 27, 268) (Kugler).

#### ANTIOCHUS I and ANTIOCHUS II THEOS

##### *Earliest Date*

XIIb/21/45? (Apr. 5, 266?) (Clay, *BRLM* II, No. 11 and p. 84).

Krückmann follows Clay, who read the year as 46(?). Since the month is intercalated the year ( $44 + x$ ) must be read either as 45 or as 47. The spacing of the wedges seems to make year 45 preferable.

##### *Latest Date*

XII/18/50 (Mar. 8, 261) (Krückmann).

#### ANTIOCHUS II THEOS

##### *Earliest Date*

VII/17/51 (Oct. 29, 261) (Krückmann).

##### *Latest Date*

I/12/66 (Apr. 15, 246) (Krückmann).

#### SELEUCUS II CALLINICUS, SELEUCUS III SOTER

##### *Earliest Date*

III/22/67 (July 11, 245) (Krückmann).

*Latest Date*

III/24/89 (July 10, 223) (Kugler).

These two rulers cannot be distinguished in cuneiform sources because of their identical names and their successive rules.

## ANTIOCHUS III (THE GREAT)

*Earliest Date*

IX/21/90 (Dec. 21, 222) (Krückmann, with XI misprinted for IX; see J. Oppert and J. Ménant, *Documents juridiques de l'Assyrie et de la Chaldée* [Paris, 1877] p. 314).

*Latest Date*

V/17/102 (Aug. 9, 210) (Krückmann).

Krückmann, *BRVU*, p. 22, reads Louis Speleers, *Recueil des inscriptions de l'Asie Antérieure des Musées Royaux du Cinquantenaire à Bruxelles* (Bruxelles, 1925) No. 293, as I/2/104. The year had best be read on the basis of Speleers' bad copy (*me me 1<sup>KAM</sup>*) as 101. See also under the following heading.

## ANTIOCHUS III and Antiochus

*Earliest Date*

Year 104 (Apr. 3, 208–Apr. 21, 207) (see Olmstead in *Classical Philology* XXXII 9 f.).

*Latest Date*

X/21/119 (Jan. 28, 192) (Krückmann).

## ANTIOCHUS III

*Earliest Date*

I/1/120 (Apr. 6, 192) (Kugler).

*Latest Date*

Year 124, no month, no day (Apr. 22–July 17 or 7, 188) (Kugler; see below).

## ANTIOCHUS III and SELEUCUS IV PHILOPATOR

*Earliest Date*

III/28 or 18/124 (July 17 or 7, 188) (Kugler).

*Latest Date*

I/25/125 (May 6, 187) (Kugler).

## SELEUCUS IV PHILOPATOR

*Earliest Date*

IV/11/125 (July 19, 187) (Kugler).

*Latest Date*

Year [136], no month, no day (Apr. 10, 176–Mar. 29, 175) (Kugler).

## ANTIOCHUS IV EPIPHANES

*Only Date*<sup>6</sup>

XII/10/137 (Feb. 27, 174) (unpublished Oriental Institute tablet A 2518).

<sup>6</sup> Krückmann gives as what would be an "earliest date" V7/14/136 (Aug.? 19, 176), based on Speleers, *op. cit.* Nos. 298 and 300. But Speleers' copy reads in both cases not "136" but "96." Hence the date concerned really belongs to Antiochus III, not IV.



## ANTIOCHUS IV and Antiochus

*Earliest Date*

138, the whole year (beginning Apr. 18, 174) (Kugler).

*Latest Date*

XI/21/143 (Mar. 3, 168) (Krückmann).

## ANTIOCHUS IV, ANTIOCHUS V EUPATOR

*Earliest Date*

III/25/144 (July 3, 168) (Krückmann).

*Latest Date*

VII/18/150 (Oct. 17, 162) (Kugler).

Again because of similarity of names it is impossible to divide the reigns of these two kings, who ruled successively.

## DEMETRIUS I SOTER

*Earliest Date*

II/22/[151] (May 14, 161) (Kugler).

*Latest Date*

—/3/161 (Apr. 6, 151–Mar. 26, 150) (Krückmann).

## ALEXANDER I BALAS

*Earliest Date*

VII/5/162 (Oct. 21, 150) (Kugler).

*Latest Date*

VIII/20/166 (Nov. 21, 146) (Kugler).

The remaining Seleucid kings and the Parthian kings are given in tabular form only. The known cuneiform data, which may be found in Kugler and Krückmann, are of little utility for chronological purposes. We follow the table in Debevoise, *op. cit.* pp. 270 f.

## SELEUCID KINGS

	B.C.		B.C.
DEMETRIUS II NICATOR	{ 145–139/38 129–125	ANTIOCHUS X EUSEBES PHILOPATOR	95–88
ANTIOCHUS VI EPIPHANES	145–142/41	DEMETRIUS III EUCAERUS PHILOPATOR SOTER	95–88
ANTIOCHUS VII SIDETES	139/38–129	ANTIOCHUS XI PHILADELPHUS	92
ALEXANDER II ZABINAS	128–123	PHILIPPUS I PHILADELPHUS	92–83
ANTIOCHUS VIII GRYPUS and CLEOPATRA THEA	125–121	ANTIOCHUS XII DIONYSUS	87–84
SELEUCUS V	125	TIGRANES OF ARMENIA	83–69
ANTIOCHUS VIII GRYPUS	121–96	ANTIOCHUS XIII ASIATICUS	69–64
ANTIOCHUS IX CYZICENUS	115–95	PHILIPPUS II	65–64
SELEUCUS VI EPIPHANES NICATOR	96–95		

## PARTHIAN KINGS

	B.C.		A.D.
ARSACES	<i>ca.</i> 250-248	VONONES I	7/8-12
TIRIDATES I	<i>ca.</i> 248-211	ARTABANUS III	12- <i>ca.</i> 38
ARTABANUS I	<i>ca.</i> 211-191	TIRIDATES III	<i>ca.</i> 36
PRIAPATIUS	<i>ca.</i> 191-176	CINNAMUS	<i>ca.</i> 37
PHRAATES I	<i>ca.</i> 176-171	GOTARZES II	<i>ca.</i> 38-51
MITHRADATES I	<i>ca.</i> 171-138/37	VARDANES	<i>ca.</i> 39-47/48
PHRAATES II	138/37- <i>ca.</i> 128	VONONES II	<i>ca.</i> 51
ARTABANUS II	<i>ca.</i> 128-124/23	VOLOGASES I	51/52-79/80
MITHRADATES II	<i>ca.</i> 123-88/87	PACORUS II	78-115/16?
GOTARZES I	91-81/80	ARTABANUS IV	80-81
ORODES I	80-76/75	OSROES	<i>ca.</i> 109/10-128/29
SINATRUCES	76/75-70 or 69	PARTHAMASPATES	<i>ca.</i> 117
PHRAATES III	70 or 69-58/57	VOLOGASES II	105/6?-147
MITHRADATES III	58/57-55	MITHRADATES IV	128/29?-147?
ORODES II	<i>ca.</i> 57-37/36	VOLOGASES III	148-192
PACORUS I	died in 38	VOLOGASES IV	191-207/8
PHRAATES IV	<i>ca.</i> 38-2	VOLOGASES V	207/8-222/23
TIRIDATES II	<i>ca.</i> 30-25	ARTABANUS V	<i>ca.</i> 213-227
PHRAATACES (PHRAATES V)	2 B.C.-A.D. 4	ARTAVASDES	<i>ca.</i> 227-228/29?
ORODES III	A.D. 4- <i>ca.</i> 6/7		

### III

#### TABLES FOR THE RESTATEMENT OF BABYLONIAN DATES IN TERMS OF THE JULIAN CALENDAR

These tables have been built on dates for Nisanu 1 from 626 B.C. to A.D. 46 calculated by the new-moon tables of Karl Schoch in S. Langdon and J. K. Fotheringham, *The Venus Tablets of Ammizaduga* (London, 1928). The results of Sidersky (*RA XXX* [1933] 57-70) were incorporated, with some corrections. The dates of Nisanu were then applied to Schoch's calendrical Table M. When the calculated date agreed with the one obtained from this table in the year under consideration and in the following year, Table M was used to derive the first days of the other months. When there was disagreement between the calculated dates for Nisanu 1 and the dates derived from Table M, the new-moon dates were calculated forward and backward from Nisanu 1 until agreement was reached between the calculated dates and the dates derived from Table M. At no time, it should be noted, were the calculated date and the derived date in disagreement by more than one day. Numerous spot tests for accuracy have been made throughout the tables, and every sequence of three or four thirty-day months and of three twenty-nine-day months has been checked by calculation.<sup>1</sup>

*Accuracy of the tables.*—Schoch claimed for his Table M an accuracy of about 75 per cent (*op. cit.* p. 101) in the dating of beginnings of months, but was less certain as to identification of the months themselves. This figure is not borne out; for, after adjusting his Table M in accordance with the intercalations given in our Plate I, we find his dates for the beginnings of years to be but 61.5 per cent accurate. Enough dates were calculated in the preparation of our tables, however, to raise the percentage of their over-all correctness to 70 per cent. This means that 70 per cent of all the dates in our tables are astronomically correct to the day, while the remaining 30 per cent may be off by one day. Since the tables are purely for historical purposes, this uncertainty is unimportant. It should be noted that the percentage of uncertainty is slightly greater for biblical dates given in the Babylonian calendar, since the new moon was visible at Jerusalem thirty-seven minutes before it was visible

<sup>1</sup> Schoch (*op. cit.* p. 98) is wrong when he states that three successive months of twenty-nine days are impossible and infers that the same is true of more than three thirty-day months. Cf. Johann Schaumberger in *SSB*, *Ergänzungsheft* 3 (1935) p. 255.

at Babylon and therefore upon occasion the new month could begin a day earlier at Jerusalem. Our tables are accurate as stated for sites in Babylonia between  $31.5^{\circ}$  and  $33.5^{\circ}$  in latitude and tend to grow slightly less exact as these limits are exceeded (cf. Schoch, *op. cit.* p. 94). Ancient errors of observation are, of course, also possible. The degrees of uncertainty of the unattested intercalary months (shown in *italics*) may be ascertained by checking Plate I and its accompanying notes.

*Use of the tables.*—The dates as given are civil days, from midnight to midnight, although in actual practice the Babylonian day began in each case with the preceding sunset. The dates given are those of the first day of each month. Leap years are indicated by italicizing the last figure of the year when it is first given, e.g. 625. The accession year of every king is shown as the last year of his predecessor. In the interest of economy of space, months are designated here not by Roman numerals, as used elsewhere in this work, but by Arabic numerals; thus 4/5 is April 5.

The arrangement in the tables is that of the Babylonian calendar, which began in the spring. The Macedonian calendar, however, began in the fall, six months earlier. Hence it must be borne in mind that each year of the Macedonian Seleucid era overlapped two Babylonian years, the *second* of which bore the same number as the Macedonian year.

The month names of the calendars used at various times in this period up to A.D. 46/47 are to be correlated with the Babylonian names as follows:<sup>2</sup>

BABYLONIAN	HEBREW	MACEDONIAN	OLD PERSIAN	ACHAEMENID ELAMITE
Nisanu	Nisan	Artemisios	Adukanish	Hadukannash
Aiaru	Iyyar	Daisios	Thuravahara	Turmar
Simanu	Siyan	Panemos	Thaigarchish	Sakurrisish
Duzu	Tammuz	Loös	Garmapada	Karmabadash
Abu	Ab	Gorpaios		Turnabasish
Ululu	Elul	Hyperberetaios		Qarhashiyash
Tashritu	Tishri	Dios	Bagayadish	Bagiyatish
Arahsamnu	Heshvan	Apellaios		Marqashanash
Kislimu	Kislev	Audynaïos	Açiyadiya	Hashiyatish
Tebetü	Tebeth	Peritios	Anamaka	Hanamakash
Shabatu	Shebat	Dystros		Saminash
Addaru	Adar	Xanthikos	Viyakhna	Mikannash

In the tables the Babylonian month names, abbreviated to their first three letters, are used.

<sup>2</sup> For the Old Persian and Achaemenid Elamite correlations cf. Poebel in *AJSL* LV (1938) 139.

# NABOPOLASSAR

YEAR B.C.	NIS	AIA	SIM	DUZ	ABU	ULU	U II	TAS	ARA	KIS	TEB	SHA	ADD	A II
Ac 626	4/5	5/5	6/4	7/3	8/2	8/31		9/29	10/29	11/27	12/27	625	1/25	2/24
1 625	3/24	4/23	5/23	6/21	7/21	8/20		9/18	10/18	11/16	12/16	624	1/14	2/13 3/14
2 624	4/12	5/12	6/10	7/10	8/8	9/7		10/7	11/5	12/4	623	1/3	2/2	3/3
3 623	4/2	5/1	5/30	6/29	7/29	8/27		9/26	10/25	11/24	12/23	622	1/22	2/20
4 622	3/22	4/20	5/20	6/19	7/18	8/17	9/15	10/15	11/14	12/13	621	1/12	2/11	3/11
5 621	4/9	5/9	6/7	7/6	8/5	9/3		10/3	11/2	12/2	620	1/1	1/30	3/1
6 620	3/30	4/28	5/28	6/26	7/25	8/24		9/23	10/22	11/21	12/21	619	1/19	2/18
7 619	3/19	4/18	5/17	6/16	7/15	8/13	9/12	10/11	11/10	12/9	618	1/8	2/6	3/8
8 618	4/7	5/7	6/5	7/5	8/3	9/1		10/1	10/30	11/29	12/28	617	1/27	2/25
9 617	3/26	4/24	5/24	6/22	7/22	8/20		9/19	10/19	11/17	12/17	616	1/15	2/13
10 616	3/15	4/14	5/13	6/12	7/11	8/10	9/9	10/8	11/7	12/6	615	1/4	2/3	3/4
11 615	4/3	5/3	6/1	7/1	7/30	8/29		9/28	10/27	11/25	12/25	614	1/23	2/22
12 614	3/24	4/22	5/21	6/20	7/20	8/18	9/17	10/16	11/15	12/14	613	1/13	2/11	3/12
13 613	4/11	5/10	6/8	7/8	8/7	9/5		10/5	11/3	12/3	612	1/1	1/31	3/2
14 612	3/31	4/30	5/29	6/27	7/27	8/25		9/24	10/24	11/22	12/22	611	1/21	2/19
15 611	3/21	4/19	5/19	6/17	7/16	8/15	9/13	10/13	11/11	12/11	610	1/10	2/9	3/10
16 610	4/9	5/8	6/7	7/6	8/5	9/3		10/2	11/1	11/30	12/30	609	1/29	2/27
17 609	3/28	4/27	5/26	6/25	7/24	8/22	9/21	10/20	11/19	12/18	608	1/17	2/15	3/17
18 608	4/16	5/15	6/13	7/13	8/11	9/10		10/10	11/8	12/8	607	1/6	2/4	3/6
19 607	4/5	5/4	6/3	7/2	8/1	8/30		9/29	10/29	11/27	12/27	606	1/25	2/23
20 606	3/25	4/23	5/23	6/22	7/21	8/20		9/18	10/18	11/16	12/16	605	1/14	2/13 3/13
21 605	4/12	5/11	6/10	7/9	8/8	9/7		10/6	11/5	12/4	604	1/3	2/1	3/3

# NEBUCHADNEZZAR II

1 604	4/2	5/1	5/30	6/29	7/28	8/27		9/26	10/25	11/24	12/24	603	1/22	2/21
2 603	3/22	4/21	5/20	6/18	7/18	8/16	9/15	10/15	11/13	12/13	602	1/12	2/10	3/12
3 602	4/10	5/10	6/8	7/7	8/6	9/4		10/4	11/2	12/2	601	1/1	1/30	2/29
4 601	3/30	4/28	5/28	6/26	7/25	8/24		9/22	10/22	11/20	12/20	600	1/19	2/17 3/18
5 600	4/17	5/16	6/15	7/14	8/13	9/12		10/11	11/10	12/9	599	1/8	2/6	3/7
6 599	4/6	5/6	6/4	7/4	8/2	9/1		10/1	10/30	11/29	12/28	598	1/26	2/25
7 598	3/27	4/25	5/24	6/23	7/23	8/21	9/20	10/19	11/18	12/17	597	1/16	2/14	3/15
8 597	4/13	5/13	6/12	7/11	8/10	9/8		10/8	11/6	12/6	596	1/4	2/2	3/4
9 596	4/3	5/2	6/1	6/30	7/30	8/29	9/27	10/27	11/25	12/25	595	1/23	2/21	3/23
10 595	4/22	5/21	6/20	7/19	8/18	9/17		10/16	11/15	12/15	594	1/13	2/12	3/13

YEAR B.C.	NIS	ALA	SIM	DUZ	ABU	ULU	UII	TAS	ARA	KIS	TEB	SHA	ADD	A II
11 594	4/12	5/11	6/9	7/9	8/7	9/6		10/5	11/4	12/4	593	1/2	2/1	3/2
12 593	3/31	4/30	5/29	6/27	7/27	8/25	9/24	10/23	11/22	12/21	592	1/20	2/19	3/21
13 592	4/19	5/19	6/17	7/17	8/15	9/13		10/13	11/11	12/11	591	1/9	2/8	3/9
14 591	4/8	5/7	6/6	7/5	8/4	9/3		10/2	11/1	11/30	12/30	590	1/28	2/26 3/28
15 590	4/27	5/26	6/25	7/24	8/23	9/21		10/21	11/19	12/19	589	1/17	2/16	3/16
16 589	4/15	5/14	6/13	7/13	8/11	9/10		10/9	11/8	12/7	588	1/6	2/4	3/6
17 588	4/4	5/4	6/2	7/2	8/1	8/30		9/29	10/29	11/27	12/26	587	1/25	2/24 3/25
18 587	4/23	5/23	6/21	7/21	8/20	9/18		10/18	11/16	12/16	586	1/14	2/13	3/14
19 586	4/13	5/12	6/11	7/11	8/9	9/8		10/7	11/6	12/5	585	1/4	2/3	3/3
20 585	4/2	5/1	5/30	6/29	7/28	8/26		9/25	10/25	11/24	12/23	584	1/22	2/21
21 584	3/22	4/21	5/20	6/18	7/18	8/16	9/14	10/14	11/13	12/13	583	1/11	2/9	3/11
22 583	4/10	5/9	6/7	7/7	8/5	9/4		10/4	11/2	12/2	12/31	582	1/30	2/28
23 582	3/30	4/29	5/28	6/26	7/26	8/24		9/23	10/22	11/21	12/21	581	1/19	2/18 3/19
24 581	4/17	5/16	6/15	7/15	8/13	9/12		10/11	11/9	12/9	580	1/7	2/6	3/7
25 580	4/6	5/5	6/4	7/4	8/2	9/1		9/30	10/30	11/28	12/28	579	1/26	2/24
26 579	3/26	4/25	5/24	6/23	7/22	8/21		9/20	10/19	11/18	12/17	578	1/15	2/14 3/15
27 578	4/14	5/13	6/12	7/12	8/10	9/9		10/9	11/7	12/7	577	1/6	2/4	3/5
28 577	4/3	5/2	6/1	6/30	7/30	8/28		9/27	10/26	11/25	12/25	576	1/23	2/21 3/23
29 576	4/22	5/21	6/19	7/19	8/18	9/16		10/16	11/14	12/14	575	1/13	2/11	3/13
30 575	4/12	5/11	6/9	7/9	8/7	9/6		10/5	11/4	12/3	574	1/2	1/31	3/2
31 574	4/1	4/30	5/29	6/28	7/27	8/26	9/24	10/24	11/22	12/22	573	1/20	2/19	3/20
32 573	4/19	5/18	6/17	7/16	8/14	9/13		10/12	11/11	12/10	572	1/9	2/7	3/9
33 572	4/8	5/7	6/5	7/5	8/4	9/2		10/2	10/31	11/30	12/29	571	1/28	2/26 3/28
34 571	4/26	5/26	6/24	7/24	8/23	9/21		10/21	11/19	12/19	570	1/18	2/16	3/17
35 570	4/16	5/15	6/14	7/13	8/12	9/11		10/10	11/9	12/8	569	1/6	2/5	3/5
36 569	4/4	5/3	6/2	7/2	7/31	8/30		9/28	10/28	11/26	12/26	568	1/24	2/23 3/24
37 568	4/23	5/22	6/21	7/21	8/19	9/18		10/17	11/16	12/16	567	1/15	2/13	3/15
38 567	4/13	5/12	6/11	7/10	8/9	9/7		10/7	11/5	12/5	566	1/3	2/1	3/3
39 566	4/2	5/1	5/31	6/29	7/29	8/27		9/26	10/26	11/24	12/24	565	1/22	2/21
40 565	3/22	4/20	5/20	6/18	7/17	8/16		9/14	10/14	11/13	12/12	564	1/10	2/9
41 564	3/11	4/9	5/8	6/7	7/6	8/5	9/4	10/3	11/2	12/1	12/31	563	1/29	2/28
42 563	3/29	4/28	5/27	6/26	7/26	8/24		9/23	10/22	11/21	12/20	562	1/18	2/17 3/19
43 562	4/17	5/17	6/15	7/15	8/13	9/12		10/12	11/10	12/10	561	1/8	2/7	3/7

#### AMEL-MARDUK

1 561	4/6	5/5	6/3	7/3	8/2	8/31		9/30	10/29	11/28	12/27	560	1/26	2/24
2 560	3/26	4/24	5/24	6/22	7/22	8/21		9/19	10/19	11/17	12/17	559	1/15	2/14 3/15

# NERGAL-SHAR-USUR

YEAR B.C.	Nis	Aia	Sim	Duz	Abu	Ulu	U II	Tas	Ara	Kis	Teb	Sha	Add	A II
1 559	4/14	5/13	6/12	7/11	8/10	9/9		10/8	11/7	12/7	558	1/5	2/3	3/5
2 558	4/4	5/3	6/1	7/1	7/30	8/29		9/28	10/27	11/26		12/25	557	1/24 2/23
3 557	3/23	4/22	5/21	6/20	7/19	8/17		9/16	10/15	11/14		12/13	556	1/12 2/11 3/12
4 556	4/11	5/11	6/9	7/9	8/7	9/5		10/5	11/3	12/3	555	1/1	1/31	3/1

Labashi-Marduk = year 4 of Nergal-shar-usur

## NABUNAID

1 555	3/31	4/30	5/30	6/28	7/27	8/26		9/24	10/24	11/22		12/22	554	1/20 2/19 3/20
2 554	4/19	5/19	6/17	7/17	8/15	9/14		10/14	11/12	12/11	553	1/10	2/8	3/8
3 553	4/7	5/7	6/5	7/5	8/3	9/2		10/2	10/31	11/29		12/29	552	1/27 2/26 3/27
4 552	4/26	5/25	6/24	7/24	8/22	9/21		10/21	11/19	12/18	551	1/17	2/15	3/17
5 551	4/16	5/15	6/13	7/13	8/11	9/10		10/10	11/8	12/8	550	1/6	2/5	3/6
6 550	4/5	5/4	6/3	7/2	8/1	8/30		9/29	10/29	11/27		12/27	549	1/26 2/24 3/25
7 549	4/23	5/23	6/21	7/20	8/19	9/17		10/17	11/16	12/15	548	1/14	2/13	3/14
8 548	4/13	5/12	6/10	7/10	8/8	9/7		10/7	11/5	12/4	547	1/3	2/2	3/3
9 547	4/2	5/2	5/31	6/29	7/29	8/27		9/26	10/25	11/24		12/23	546	1/22 2/20
10 546	3/22	4/20	5/20	6/19	7/18	8/17	9/15	10/15	11/13	12/13	545	1/11	2/10	3/10
11 545	4/9	5/8	6/7	7/6	8/5	9/4		10/3	11/2	12/1		12/31	544	1/29 2/28
12 544	3/29	4/28	5/27	6/26	7/25	8/24		9/23	10/22	11/20		12/20	543	1/18 2/17 3/18
13 543	4/17	5/16	6/15	7/14	8/13	9/12		10/11	11/10	12/9	542	1/8	2/6	3/8
14 542	4/6	5/6	6/4	7/4	8/3	9/1		10/1	10/30	11/29		12/28	541	1/27 2/25
15 541	3/26	4/24	5/24	6/22	7/22	8/20		9/19	10/19	11/17		12/17	540	1/15 2/13 3/15
16 540	4/14	5/13	6/12	7/11	8/10	9/9		10/8	11/7	12/6	539	1/5	2/3	3/5
17 539	4/4	5/3	6/1	7/1	7/30	8/29		9/28	10/27	11/25		12/25	538	1/23 2/22

## CYRUS

1 538	3/24	4/22	5/21	6/20	7/20	8/18		9/17	10/16	11/15		12/14	537	1/13 2/11
2 537	3/12	4/10	5/10	6/8	7/8	8/7	9/5	10/5	11/3	12/3	536	1/1	1/31	3/1
3 536	3/30	4/29	5/29	6/27	7/27	8/25		9/24	10/23	11/22		12/22	535	1/20 2/19 3/20
4 535	4/18	5/18	6/17	7/16	8/15	9/13		10/13	11/11	12/11	534	1/10	2/8	3/9
5 534	4/8	5/7	6/6	7/6	8/4	9/3		10/2	11/1	12/1		12/30	533	1/28 2/27
6 533	3/28	4/26	5/25	6/24	7/24	8/22		9/21	10/20	11/19		12/18	532	1/17 2/16 3/17
7 532	4/16	5/15	6/13	7/13	8/11	9/10		10/10	11/8	12/8	531	1/6	2/5	3/7
8 531	4/5	5/5	6/3	7/2	8/1	8/30		9/29	10/29	11/27		12/27	530	1/25 2/24
9 530	3/26	4/24	5/23	6/22	7/21	8/20	9/18	10/18	11/16	12/16	529	1/14	2/13	3/13



# CAMBYSES

YEAR B.C.	NIS	ALA	SIM	DUZ	ABU	ULU	U II	TAS	ARA	KIS	TEB	SHA	ADD	A II
1 529	4/12	5/11	6/10	7/10	8/8	9/7		10/6	11/5	12/4	528	1/3	2/1	3/3
2 528	4/1	5/1	5/30	6/29	7/28	8/27		9/26	10/25	11/24	12/23	527	1/21	2/20
3 527	3/21	4/20	5/20	6/18	7/18	8/16	9/15	10/14	11/13	12/13	526	1/11	2/9	3/11
4 526	4/9	5/9	6/8	7/7	8/6	9/4		10/4	11/2	12/1	12/31	525	1/30	2/28
5 525	3/29	4/27	5/27	6/26	7/25	8/24		9/23	10/22	11/20	12/20	524	1/19	2/17 3/18
6 524	4/17	5/16	6/14	7/14	8/13	9/12		10/11	11/10	12/9	523	1/8	2/7	3/8
7 523	4/7	5/6	6/4	7/4	8/2	9/1		10/1	10/30	11/29	12/28	522	1/27	2/26
8 522	3/27	4/25	5/25	6/23	7/23	8/21		9/20	10/19	11/18	12/17	521	1/16	2/14 3/15

Bardiya=year 8 of Cambyses

Nebuchadnezzar III=year 8 of Cambyses

# DARIUS I

Nebuchadnezzar IV=year 1 of Darius I

1 521	4/14	5/13	6/12	7/11	8/10	9/8		10/8	11/6	12/6	520	1/4	2/2	3/4
2 520	4/3	5/2	6/1	6/30	7/30	8/29		9/27	10/27	11/25	12/25	519	1/23	2/21
3 519	3/23	4/22	5/21	6/20	7/19	8/18	9/17	10/16	11/15	12/14	518	1/12	2/11	3/12
4 518	4/11	5/10	6/9	7/9	8/7	9/6		10/5	11/4	12/3	517	1/2	1/31	3/1
5 517	3/30	4/29	5/29	6/27	7/27	8/25		9/24	10/23	11/22	12/21	516	1/20	2/18 3/20
6 516	4/18	5/18	6/16	7/16	8/14	9/13		10/13	11/11	12/11	515	1/9	2/8	3/10
7 515	4/8	5/7	6/6	7/5	8/4	9/3		10/2	11/1	11/30	12/30	514	1/29	2/27
8 514	3/29	4/27	5/26	6/25	7/24	8/23		9/21	10/21	11/19	12/19	513	1/18	2/16 3/17
9 513	4/16	5/15	6/13	7/13	8/11	9/10		10/9	11/8	12/7	512	1/6	2/4	3/6
10 512	4/5	5/4	6/2	7/2	8/1	8/30		9/29	10/28	11/27	12/26	511	1/25	2/23
11 511	3/25	4/23	5/23	6/21	7/21	8/20	9/18	10/18	11/16	12/16	510	1/14	2/13	3/14
12 510	4/13	5/12	6/11	7/10	8/9	9/7		10/7	11/6	12/5	509	1/4	2/2	3/2
13 509	4/1	4/30	5/30	6/29	7/28	8/27		9/25	10/25	11/23	12/23	508	1/21	2/20 3/21
14 508	4/20	5/19	6/18	7/18	8/16	9/15		10/14	11/13	12/12	507	1/11	2/9	3/11
15 507	4/9	5/9	6/7	7/7	8/5	9/4		10/4	11/2	12/2	506	1/1	1/30	3/1
16 506	3/30	4/28	5/28	6/26	7/26	8/24		9/23	10/22	11/21	12/20	505	1/19	2/17 3/18
17 505	4/17	5/16	6/14	7/14	8/13	9/11		10/11	11/9	12/9	504	1/7	2/6	3/7
18 504	4/6	5/5	6/4	7/4	8/2	9/1		9/30	10/30	11/28	12/28	503	1/26	2/25
19 503	3/27	4/25	5/24	6/23	7/22	8/21	9/20	10/18	11/18	12/17	502	1/15	2/14	3/15
20 502	4/14	5/13	6/12	7/12	8/10	9/9		10/8	11/7	12/6	501	1/5	2/3	3/4



YEAR B.C.	NIS	ALA	SIM	DUZ	ABU	ULU	UII	TAS	ARA	KIS	TEB	SHA	ADD	A II
21 501	4/2	5/2	5/31	6/30	7/30	8/28		9/27	10/26	11/25	12/24	500	1/23	2/21
22 500	3/23	4/21	5/21	6/19	7/19	8/18		9/16	10/16	11/14	12/14	499	1/12	2/11 3/12
23 499	4/11	5/10	6/9	7/8	8/7	9/6		10/5	11/4	12/3	498	1/2	1/31	3/2
24 498	3/31	4/30	5/29	6/28	7/27	8/26		9/24	10/24	11/22	12/22	497	1/20	2/19 3/19
25 497	4/18	5/17	6/16	7/16	8/14	9/13		10/12	11/11	12/10	496	1/9	2/7	3/9
26 496	4/8	5/7	6/5	7/5	8/4	9/2		10/2	10/31	11/30	12/29	495	1/28	2/26
27 495	3/28	4/26	5/26	6/24	7/24	8/23		9/21	10/21	11/19	12/19	494	1/17	2/15 3/17
28 494	4/16	5/15	6/14	7/13	8/12	9/11		10/10	11/9	12/8	493	1/6	2/5	3/5
29 493	4/4	5/3	6/2	7/2	7/31	8/30		9/28	10/28	11/26	12/26	492	1/24	2/23 3/24
30 492	4/23	5/22	6/21	7/21	8/19	9/18		10/17	11/16	12/15	491	1/14	2/12	3/14
31 491	4/12	5/12	6/10	7/10	8/9	9/7		10/7	11/5	12/5	490	1/3	2/1	3/3
32 490	4/2	5/1	5/31	6/29	7/29	8/28		9/26	10/26	11/24	12/23	489	1/22	2/20 3/21
33 489	4/19	5/19	6/18	7/17	8/16	9/14		10/14	11/12	12/12	488	1/10	2/9	3/10
34 488	4/9	5/8	6/7	7/6	8/5	9/4		10/3	11/2	12/1	12/31	487	1/29	2/28
35 487	3/30	4/28	5/27	6/26	7/26	8/24		9/23	10/22	11/21	12/20	486	1/19	2/17 3/19
36 486	4/18	5/17	6/15	7/15	8/13	9/12		10/12	11/10	12/10	485	1/8	2/6	3/7

# XERXES

1 485	4/6	5/5	6/3	7/3	8/2	8/31		9/30	10/29	11/28	12/27	484	1/26	2/24
2 484	3/26	4/24	5/24	6/22	7/22	8/21	9/19	10/19	11/17	12/17	483	1/15	2/14	3/15
3 483	4/14	5/13	6/12	7/11	8/10	9/9		10/8	11/7	12/6	482	1/5	2/3	3/5
4 482	4/3	5/3	6/1	7/1	7/30	8/29		9/28	10/27	11/25	12/25	481	1/23	2/22
5 481	3/23	4/21	5/20	6/19	7/19	8/17		9/16	10/15	11/14	12/13	480	1/12	2/10 3/12
6 480	4/11	5/10	6/8	7/8	8/7	9/5		10/5	11/3	12/3	479	1/1	1/31	3/1
7 479	3/31	4/29	5/29	6/27	7/27	8/26		9/24	10/24	11/22	12/22	478	1/20	2/19 3/20
8 478	4/19	5/18	6/17	7/16	8/15	9/14		10/13	11/12	12/11	477	1/10	2/8	3/9
9 477	4/8	5/7	6/5	7/5	8/3	9/2		10/1	10/31	11/29	12/29	476	1/27	2/26
10 476	3/28	4/26	5/25	6/24	7/24	8/22		9/21	10/20	11/19	12/18	475	1/17	2/15 3/17
11 475	4/15	5/15	6/13	7/13	8/11	9/10		10/10	11/8	12/8	474	1/6	2/5	3/6
12 474	4/5	5/4	6/3	7/2	8/1	8/31		9/29	10/29	11/27	12/26	473	1/25	2/23 3/24
13 473	4/22	5/22	6/21	7/20	8/19	9/17		10/17	11/15	12/15	472	1/13	2/12	3/13
14 472	4/12	5/12	6/10	7/10	8/9	9/7		10/7	11/6	12/5	471	1/4	2/2	3/3
15 471	4/2	5/1	5/30	6/29	7/29	8/27		9/26	10/25	11/24	12/23	470	1/22	2/20 3/22

YEAR B.C.	NIS	ALA	SIM	DUZ	ABU	ULU	UII	TAS	ARA	KIS	TEB	SHA	ADD	A II
16 470	4/21	5/20	6/19	7/18	8/17	9/15		10/15	11/13	12/13	469	1/11	2/10	3/10
17 469	4/9	5/8	6/7	7/6	8/5	9/4		10/3	11/2	12/1		12/31	468	1/29 2/28
18 468	3/29	4/28	5/27	6/26	7/25	8/24		9/23	10/22	11/20		12/20	467	1/18 2/17 3/18
19 467	4/17	5/16	6/15	7/15	8/13	9/12		10/11	11/10	12/9	466	1/8	2/6	3/8
20 466	4/6	5/6	6/4	7/4	8/3	9/1		10/1	10/30	11/29		12/28	465	1/27 2/25
21 465	3/25	4/24	5/24	6/22	7/22	8/20	9/19	10/19	11/17	12/17	464	1/15	2/13	3/15

#### ARTAXERXES I

1 464	4/13	5/13	6/12	7/11	8/10	9/9		10/8	11/7	12/6	463	1/4	2/3	3/4
2 463	4/3	5/3	6/1	7/1	7/30	8/29		9/28	10/27	11/25		12/25	462	1/23 2/22 3/24
3 462	4/22	5/21	6/20	7/20	8/18	9/17		10/16	11/15	12/14	461	1/13	2/11	3/12
4 461	4/11	5/10	6/8	7/8	8/7	9/5		10/5	11/3	12/3	460	1/1	1/31	3/1
5 460	3/31	4/30	5/29	6/27	7/27	8/25		9/24	10/23	11/22		12/22	459	1/20 2/19 3/20
6 459	4/19	5/18	6/17	7/16	8/15	9/13		10/13	11/11	12/11	458	1/10	2/8	3/9
7 458	4/8	5/7	6/6	7/6	8/4	9/3		10/2	11/1	11/30		12/30	457	1/28 2/27
8 457	3/27	4/26	5/25	6/24	7/24	8/22		9/21	10/20	11/19		12/18	456	1/17 2/15 3/16
9 456	4/15	5/15	6/13	7/13	8/11	9/10		10/10	11/8	12/8	455	1/6	2/4	3/6
10 455	4/4	5/4	6/3	7/2	8/1	8/30		9/29	10/29	11/27		12/27	454	1/25 2/23 3/25
11 454	4/23	5/23	6/22	7/21	8/20	9/18		10/18	11/16	12/16	453	1/14	2/13	3/13
12 453	4/12	5/11	6/10	7/9	8/8	9/7		10/6	11/5	12/4	452	1/3	2/1	3/3
13 452	4/2	5/1	5/30	6/29	7/28	8/27		9/26	10/25	11/24		12/23	451	1/21 2/20 3/21
14 451	4/20	5/20	6/18	7/18	8/16	9/15		10/14	11/13	12/13	450	1/11	2/9	3/11
15 450	4/10	5/9	6/8	7/7	8/6	9/4		10/4	11/2	12/2		12/31	449	1/30 2/28
16 449	3/29	4/27	5/27	6/26	7/25	8/24		9/22	10/22	11/20		12/20	448	1/18 2/17 3/18
17 448	4/16	5/16	6/14	7/14	8/12	9/11		10/11	11/9	12/8	447	1/7	2/5	3/7
18 447	4/6	5/5	6/3	7/3	8/2	8/31		9/30	10/29	11/28		12/27	446	1/26 2/24
19 446	3/26	4/24	5/24	6/23	7/22	8/21	9/19	10/19	11/17	12/17	445	1/15	2/14	3/14
20 445	4/13	5/12	6/11	7/10	8/9	9/8		10/7	11/6	12/5	444	1/4	2/2	3/4
21 444	4/3	5/2	5/31	6/30	7/29	8/28		9/27	10/26	11/25		12/25	443	1/23 2/22 3/23
22 443	4/22	5/21	6/20	7/19	8/17	9/16		10/15	11/14	12/14	442	1/12	2/11	3/13
23 442	4/11	5/11	6/9	7/9	8/7	9/5		10/5	11/3	12/3	441	1/1	1/31	3/1
24 441	3/31	4/29	5/29	6/27	7/27	8/25		9/23	10/23	11/21		12/21	440	1/19 2/17 3/19
25 440	4/18	5/17	6/16	7/15	8/14	9/13		10/12	11/11	12/10	439	1/8	2/7	3/8

YEAR B.C.	NIS	AIA	SIM	DUZ	ABU	ULU	U II	TAS	ARA	KIS	TEB	SHA	ADD	A II
26 439	4/7	5/7	6/5	7/5	8/3	9/2		10/2	10/31	11/29	12/29	438	1/27	2/26
27 438	3/28	4/26	5/25	6/24	7/24	8/22		9/21	10/20	11/19	12/18	437	1/17	2/15 3/16
28 437	4/14	5/14	6/12	7/12	8/11	9/9		10/9	11/8	12/8	436	1/6	2/5	3/6
29 436	4/4	5/3	6/2	7/1	7/31	8/29		9/28	10/28	11/27	12/27	435	1/25	2/24 3/25
30 435	4/23	5/22	6/21	7/20	8/19	9/17		10/17	11/16	12/15	434	1/14	2/13	3/14
31 434	4/13	5/12	6/10	7/10	8/8	9/7		10/6	11/5	12/5	433	1/3	2/2	3/3
32 433	4/1	5/1	5/30	6/28	7/28	8/26		9/25	10/24	11/23	12/22	432	1/21	2/20 3/21
33 432	4/20	5/19	6/17	7/17	8/15	9/14		10/14	11/12	12/12	431	1/10	2/9	3/10
34 431	4/9	5/9	6/7	7/6	8/5	9/3		10/3	11/2	12/1	12/31	430	1/29	2/27
35 430	3/29	4/27	5/27	6/26	7/25	8/24		9/22	10/22	11/20	12/20	429	1/18	2/17 3/17
36 429	4/16	5/15	6/14	7/13	8/12	9/11		10/10	11/9	12/8	428	1/7	2/5	3/7
37 428	4/5	5/5	6/3	7/3	8/2	9/1		9/30	10/30	11/29	12/28	427	1/26	2/25
38 427	3/26	4/24	5/24	6/22	7/22	8/20	9/19	10/19	11/17	12/17	426	1/16	2/14	3/16
39 426	4/14	5/13	6/12	7/11	8/10	9/8		10/8	11/7	12/6	425	1/5	2/4	3/4
40 425	4/3	5/2	6/1	6/30	7/29	8/28		9/26	10/26	11/24	12/24	424	1/23	2/21 3/23
41 424	4/22	5/21	6/20	7/19	8/17	9/16		10/15	11/14	12/13	423	1/12	2/10	3/12

#### DARIUS II

1 423	4/11	5/11	6/9	7/9	8/7	9/5		10/5	11/3	12/3	422	1/1	1/31	3/1
2 422	3/31	4/30	5/29	6/28	7/28	8/26		9/24	10/24	11/22	12/21	421	1/20	2/18 3/19
3 421	4/18	5/17	6/16	7/15	8/14	9/12		10/12	11/10	12/10	420	1/8	2/6	3/8
4 420	4/7	5/6	6/5	7/4	8/3	9/2		10/1	10/31	11/29	12/29	419	1/27	2/25
5 419	3/27	4/26	5/25	6/24	7/23	8/22		9/21	10/20	11/19	12/18	418	1/16	2/15 3/16
6 418	4/15	5/14	6/13	7/13	8/11	9/10		10/10	11/8	12/8	417	1/7	2/5	3/6
7 417	4/4	5/3	6/2	7/1	7/31	8/29		9/28	10/28	11/26	12/26	416	1/25	2/23 3/25
8 416	4/23	5/22	6/21	7/20	8/18	9/17		10/17	11/15	12/15	415	1/14	2/12	3/14
9 415	4/13	5/12	6/10	7/10	8/8	9/7		10/6	11/5	12/4	414	1/3	2/1	3/3
10 414	4/2	5/1	5/30	6/29	7/28	8/27		9/25	10/25	11/23	12/23	413	1/21	2/20 3/20
11 413	4/19	5/18	6/17	7/17	8/15	9/14		10/13	11/12	12/11	412	1/10	2/8	3/10
12 412	4/8	5/8	6/6	7/6	8/5	9/3		10/3	11/1	12/1	12/30	411	1/29	2/27
13 411	3/29	4/27	5/27	6/25	7/25	8/24		9/22	10/22	11/20	12/20	410	1/18	2/17 3/18
14 410	4/17	5/16	6/15	7/14	8/13	9/11		10/11	11/10	12/9	409	1/8	2/6	3/6
15 409	4/5	5/4	6/3	7/3	8/1	8/31		9/30	10/29	11/28	12/28	408	1/26	2/25

YEAR B.C.	NIS	AIA	SIM	DUZ	ABU	ULU	U II	TAS	ARA	KIS	TEB	SHA	ADD	A II
16 408	3/26	4/24	5/24	6/22	7/22	8/20	9/19	10/18	11/17	12/17	407	1/15	2/14	3/16
17 407	4/14	5/14	6/12	7/11	8/10	9/8		10/8	11/6	12/6	406	1/4	2/3	3/5
18 406	4/3	5/3	6/2	7/1	7/30	8/29		9/27	10/26	11/25	12/24	405	1/23	2/22 3/22
19 405	4/21	5/21	6/19	7/19	8/17	9/15		10/15	11/13	12/13	404	1/11	2/10	3/11

#### ARTAXERXES II

1 404	4/10	5/9	6/8	7/8	8/6	9/5		10/4	11/3	12/2	403	1/1	1/30	2/28
2 403	3/30	4/29	5/28	6/27	7/26	8/25		9/24	10/23	11/22	12/21	402	1/19	2/18 3/19
3 402	4/18	5/18	6/16	7/16	8/15	9/13		10/13	11/12	12/11	401	1/10	2/8	3/9
4 401	4/7	5/6	6/5	7/4	8/3	9/1		10/1	10/30	11/29	12/28	400	1/27	2/25
5 400	3/27	4/25	5/25	6/23	7/23	8/22		9/20	10/20	11/18	12/18	399	1/16	2/15 3/16
6 399	4/15	5/14	6/13	7/12	8/11	9/10		10/9	11/8	12/8	398	1/6	2/5	3/7
7 398	4/5	5/4	6/3	7/2	7/31	8/30		9/28	10/28	11/27	12/26	397	1/25	2/24 3/24
8 397	4/23	5/22	6/21	7/20	8/18	9/17		10/16	11/15	12/14	396	1/13	2/12	3/13
9 396	4/12	5/12	6/10	7/10	8/8	9/6		10/6	11/4	12/4	395	1/2	2/1	3/2
10 395	4/1	4/30	5/30	6/28	7/28	8/27		9/25	10/25	11/23	12/23	394	1/21	2/19 3/21
11 394	4/20	5/19	6/18	7/17	8/16	9/15		10/14	11/13	12/12	393	1/10	2/9	3/9
12 393	4/8	5/7	6/6	7/6	8/4	9/3		10/2	11/1	11/30	12/30	392	1/28	2/27
13 392	3/29	4/27	5/26	6/25	7/25	8/23		9/22	10/21	11/20	12/19	391	1/18	2/16 3/18
14 391	4/17	5/16	6/14	7/14	8/13	9/11		10/11	11/9	12/9	390	1/7	2/5	3/7
15 390	4/6	5/5	6/4	7/3	8/2	9/1		9/30	10/30	11/28	12/28	389	1/26	2/25
16 389	3/26	4/24	5/24	6/22	7/21	8/20	9/18	10/18	11/16	12/16	388	1/15	2/13	3/15
17 388	4/14	5/13	6/12	7/11	8/10	9/8		10/7	11/6	12/5	387	1/4	2/2	3/4
18 387	4/3	5/2	6/1	7/1	7/30	8/28		9/27	10/26	11/25	12/24	386	1/23	2/21 3/23
19 386	4/22	5/21	6/20	7/20	8/18	9/17		10/16	11/14	12/14	385	1/12	2/11	3/11
20 385	4/10	5/9	6/8	7/8	8/6	9/5		10/4	11/3	12/2	384	1/1	1/30	3/1 3/30
21 384	4/29	5/28	6/27	7/26	8/25	9/23		10/23	11/21	12/21	383	1/19	2/18	3/19
22 383	4/18	5/17	6/16	7/15	8/14	9/13		10/12	11/11	12/11	382	1/10	2/8	3/10
23 382	4/8	5/7	6/5	7/5	8/3	9/2		10/2	10/31	11/29	12/29	381	1/27	2/26
24 381	3/26	4/25	5/24	6/23	7/23	8/21		9/20	10/19	11/18	12/18	380	1/17	2/15 3/17
25 380	4/15	5/15	6/13	7/12	8/11	9/9		10/9	11/7	12/7	379	1/6	2/4	3/6
26 379	4/5	5/4	6/3	7/2	7/31	8/30		9/28	10/28	11/26	12/26	378	1/24	2/23 3/24
27 378	4/23	5/22	6/21	7/20	8/19	9/18		10/17	11/16	12/15	377	1/13	2/12	3/12
28 377	4/11	5/11	6/9	7/9	8/7	9/6		10/5	11/4	12/3	376	1/2	1/31	3/2
29 376	3/31	4/30	5/29	6/28	7/28	8/26		9/25	10/24	11/23	12/22	375	1/21	2/19 3/21
30 375	4/19	5/19	6/17	7/17	8/15	9/14		10/14	11/12	12/12	374	1/10	2/9	3/10

YEAR B.C.	NIS	AXA	SIM	DUZ	ABU	ULU	UII	TAS	ARA	KIS	TEB	SHA	ADD	A II
31 374	4/9	5/8	6/7	7/6	8/5	9/4		10/3	11/2	12/2	12/31	373	1/30	2/28
32 373	3/29	4/27	5/26	6/25	7/24	8/23		9/22	10/21	11/20	12/20	372	1/18	2/17 3/18
33 372	4/17	5/16	6/14	7/14	8/12	9/11		10/11	11/9	12/9	371	1/7	2/6	3/8
34 371	4/6	5/6	6/4	7/4	8/2	8/31		9/30	10/29	11/28	12/27	370	1/26	2/24
35 370	3/26	4/24	5/24	6/23	7/22	8/21	9/19	10/19	11/17	12/17	369	1/15	2/14	3/14
36 369	4/13	5/12	6/11	7/10	8/9	9/8		10/7	11/6	12/5	368	1/4	2/2	3/4
37 368	4/2	5/2	5/31	6/30	7/29	8/28		9/27	10/26	11/24	12/24	367	1/22	2/21 3/22
38 367	4/21	5/21	6/19	7/19	8/18	9/16		10/15	11/14	12/13	366	1/12	2/10	3/12
39 366	4/10	5/10	6/8	7/8	8/7	9/5		10/5	11/3	12/3	365	1/1	1/31	2/29
40 365	3/30	4/28	5/28	6/26	7/26	8/24		9/23	10/23	11/21	12/21	364	1/19	2/17 3/19
41 364	4/18	5/17	6/16	7/15	8/14	9/13		10/12	11/11	12/10	363	1/9	2/8	3/9
42 363	4/8	5/7	6/5	7/5	8/3	9/2		10/2	10/31	11/29	12/29	362	1/28	2/27
43 362	3/28	4/27	5/26	6/24	7/24	8/22		9/21	10/20	11/19	12/18	361	1/17	2/15 3/16
44 361	4/15	5/14	6/12	7/12	8/11	9/9		10/9	11/7	12/7	360	1/5	2/4	3/5
45 360	4/4	5/3	6/2	7/1	7/31	8/29		9/28	10/27	11/26	12/26	359	1/24	2/23 3/24
46 359	4/22	5/22	6/21	7/20	8/19	9/17		10/17	11/15	12/15	358	1/14	2/12	3/13

#### ARTAXERXES III

1 358	4/12	5/11	6/10	7/10	8/8	9/7		10/6	11/5	12/4	357	1/3	2/1	3/2
2 357	3/31	4/30	5/29	6/28	7/28	8/26		9/25	10/24	11/23	12/22	356	1/21	2/19 3/20
3 356	4/19	5/19	6/17	7/17	8/15	9/14		10/14	11/12	12/12	355	1/11	2/9	3/11
4 355	4/9	5/8	6/7	7/6	8/5	9/3		10/3	11/2	12/1	12/31	354	1/29	2/28
5 354	3/30	4/28	5/27	6/26	7/25	8/24		9/22	10/22	11/20	12/20	353	1/18	2/17 3/17
6 353	4/16	5/15	6/14	7/13	8/12	9/11		10/10	11/9	12/8	352	1/7	2/5	3/7
7 352	4/6	5/5	6/3	7/3	8/1	8/31		9/30	10/29	11/28	12/27	351	1/25	2/24
8 351	3/26	4/24	5/24	6/22	7/22	8/20	9/19	10/18	11/17	12/17	350	1/15	2/13	3/15
9 350	4/13	5/13	6/12	7/11	8/10	9/8		10/8	11/7	12/6	349	1/4	2/3	3/3
10 349	4/2	5/1	5/31	6/30	7/29	8/28		9/26	10/26	11/24	12/24	348	1/22	2/21 3/22
11 348	4/21	5/20	6/19	7/18	8/17	9/16		10/15	11/14	12/13	347	1/12	2/10	3/11
12 347	4/10	5/10	6/8	7/8	8/6	9/5		10/5	11/3	12/3	346	1/2	1/31	3/2
13 346	3/31	4/29	5/29	6/27	7/27	8/25		9/24	10/23	11/22	12/22	345	1/20	2/19 3/20
14 345	4/18	5/17	6/16	7/15	8/14	9/12		10/12	11/10	12/10	344	1/8	2/6	3/8
15 344	4/7	5/6	6/5	7/4	8/3	9/2		10/1	10/31	11/29	12/29	343	1/27	2/25



YEAR B.C.	Nis	Aia	Sim	Duz	Abu	Ulu	U II	Tas	ARA	Kis	TEB	SHA	ADD	A II
16 343	3/27	4/26	5/25	6/24	7/23	8/22		9/21	10/20	11/19	12/18	342	1/16	2/15 3/16
17 342	4/15	5/14	6/13	7/13	8/11	9/10		10/9	11/8	12/7	341	1/6	2/4	3/5
18 341	4/3	5/3	6/2	7/1	7/31	8/29		9/28	10/27	11/26	12/25	340	1/24	2/22 3/24
19 340	4/22	5/22	6/20	7/20	8/18	9/17		10/17	11/15	12/15	339	1/13	2/12	3/13
20 339	4/12	5/11	6/10	7/9	8/8	9/7		10/6	11/5	12/4	338	1/3	2/1	3/2
21 338	4/1	5/1	5/30	6/29	7/28	8/27		9/25	10/25	11/23	12/23	337	1/21	2/20 3/20

#### ARSES

1 337	4/19	5/18	6/17	7/17	8/15	9/14		10/13	11/12	12/11	336	1/10	2/8	3/10
2 336	4/9	5/8	6/6	7/6	8/5	9/3		10/3	11/1	12/1		12/30	335	1/29 2/27

#### DARIUS III

1 335	3/29	4/27	5/27	6/25	7/25	8/24		9/22	10/22	11/20	12/20	334	1/18	2/17 3/18
2 334	4/17	5/16	6/15	7/14	8/13	9/11		10/11	11/10	12/9	333	1/8	2/6	3/6
3 333	4/5	5/4	6/3	7/3	8/1	8/31		9/29	10/29	11/27	12/27	332	1/25	2/24
4 332	3/25	4/24	5/23	6/22	7/22	8/20	9/19	10/18	11/17	12/17	331	1/15	2/13	3/15
5 331	4/13	5/13	6/11	7/11	8/9	9/8		10/8	11/6	12/6	330	1/4	2/2	3/4

#### ALEXANDER I

Year 6 of Alexander I = year 5 of Darius III

7 330	4/3	5/2	6/1	6/30	7/30	8/28		9/27	10/26	11/25	12/24	329	1/23	2/21 3/22
8 329	4/21	5/20	6/18	7/18	8/17	9/15		10/15	11/13	12/13	328	1/12	2/11	3/12
9 328	4/11	5/10	6/8	7/8	8/6	9/5		10/4	11/3	12/2	327	1/1	1/31	3/1
10 327	3/31	4/29	5/28	6/27	7/26	8/25		9/24	10/23	11/22	12/21	326	1/20	2/18 3/20
11 326	4/19	5/18	6/17	7/16	8/14	9/13		10/12	11/11	12/10	325	1/9	2/7	3/8
12 325	4/7	5/6	6/4	7/4	8/3	9/1		10/1	10/30	11/29	12/28	324	1/27	2/25
13 324	3/27	4/25	5/25	6/23	7/23	8/22		9/20	10/20	11/18	12/18	323	1/16	2/15 3/16
14 323	4/15	5/14	6/13	7/12	8/11	9/10		10/9	11/8	12/7	322	1/6	2/4	3/6

#### PHILIP ARRHIDAEUS

Year 1 of Philip = year 14 of Alexander I

2 322	4/4	5/4	6/2	7/2	7/31	8/30		9/28	10/28	11/26	12/26	321	1/24	2/23 3/23
3 321	4/22	5/21	6/20	7/20	8/18	9/17		10/16	11/15	12/14	320	1/13	2/11	3/13
4 320	4/12	5/11	6/9	7/9	8/8	9/6		10/6	11/4	12/4	319	1/2	2/1	3/2
5 319	4/1	4/30	5/30	6/28	7/28	8/27		9/25	10/25	11/23	12/23	318	1/21	2/19 3/21

YEAR B.C.	NIS	ATA	SIM	DUZ	ABU	ULU	UII	TAS	ARA	KIS	TEB	SHA	ADD	A II
6 318	4/20	5/19	6/18	7/17	8/16	9/15		10/14	11/13	12/12	317	1/10	2/9	3/9
7 317	4/8	5/7	6/6	7/6	8/4	9/3		10/2	11/1	11/30		12/30	316	1/28 2/27
8 316	3/28	4/27	5/26	6/25	7/25	8/23		9/22	10/21	11/20		12/19	315	1/18 2/16 3/18

Years 1-6 of Antigonus as general = year 7 of Philip through year 5 of Alexander II

#### ALEXANDER II

Year 1 of Alexander II = year 8 of Philip

2 315	4/16	5/16	6/14	7/14	8/13	9/11		10/11	11/9	12/9	314	1/7	2/5	3/7
3 314	4/5	5/5	6/4	7/3	8/2	9/1		9/30	10/30	11/28		12/27	313	1/26 2/24
4 313	3/25	4/23	5/23	6/22	7/21	8/20	9/18	10/18	11/16	12/16	312	1/14	2/13	3/14
5 312	4/13	5/12	6/11	7/10	8/9	9/8		10/7	11/6	12/5	311	1/4	2/2	3/4

Years 6-10 of Alexander II = years 1-5 of Seleucid Era

#### SELEUCID ERA

1 311	4/3	5/2	5/31	6/30	7/30	8/28		9/27	10/26	11/25		12/24	310	1/23 2/21 3/23
2 310	4/22	5/21	6/19	7/19	8/17	9/16		10/16	11/14	12/14	309	1/12	2/11	3/12
3 309	4/10	5/10	6/8	7/7	8/6	9/4		10/4	11/2	12/2		12/31	308	1/30 2/28
4 308	3/30	4/28	5/28	6/26	7/26	8/25		9/23	10/23	11/21		12/21	307	1/19 2/18 3/19
5 307	4/18	5/17	6/16	7/15	8/14	9/13		10/12	11/11	12/10	306	1/9	2/7	3/9
6 306	4/7	5/7	6/5	7/5	8/3	9/2		10/2	10/31	11/29		12/29	305	1/27 2/26
7 305	3/26	4/25	5/24	6/23	7/23	8/21		9/20	10/19	11/18		12/17	304	1/16 2/14 3/16
8 304	4/14	5/14	6/12	7/12	8/11	9/9		10/9	11/7	12/7	303	1/5	2/4	3/5
9 303	4/4	5/3	6/2	7/1	7/31	8/30		9/28	10/28	11/26		12/26	302	1/24 2/23 3/24
10 302	4/23	5/22	6/21	7/20	8/19	9/18		10/17	11/16	12/16	301	1/14	2/13	3/13
11 301	4/12	5/11	6/9	7/9	8/7	9/6		10/5	11/4	12/3	300	1/2	2/1	3/2
12 300	4/1	5/1	5/30	6/28	7/28	8/26		9/25	10/24	11/23		12/22	299	1/21 2/19 3/21
13 299	4/20	5/19	6/17	7/17	8/15	9/14		10/14	11/12	12/12	298	1/10	2/9	3/10
14 298	4/9	5/8	6/7	7/6	8/5	9/4		10/3	11/2	12/1		12/30	297	1/29 2/27
15 297	3/28	4/26	5/26	6/25	7/24	8/23		9/21	10/21	11/19		12/19	296	1/17 2/16 3/17
16 296	4/16	5/16	6/14	7/14	8/12	9/11		10/11	11/9	12/8	295	1/7	2/5	3/7
17 295	4/5	5/5	6/3	7/3	8/2	8/31		9/30	10/29	11/28		12/27	294	1/26 2/24
18 294	3/26	4/24	5/24	6/23	7/22	8/21	9/19	10/19	11/17	12/17	293	1/15	2/14	3/14
19 293	4/13	5/12	6/11	7/10	8/9	9/8		10/7	11/6	12/5	292	1/4	2/2	3/4
20 292	4/3	5/2	5/31	6/30	7/29	8/28		9/27	10/26	11/24		12/24	291	1/22 2/21 3/22

# SELEUCID ERA

YEAR B.C.	NIS	AIA	SIM	DUZ	ABU	ULU	U II	TAS	ARA	KIS	TEB	SEA	ADD	A II
21 291	4/21	5/20	6/19	7/19	8/17	9/16		10/15	11/14	12/13	290	1/12	2/10	3/12
22 290	4/10	5/10	6/8	7/8	8/7	9/5		10/5	11/3	12/3	289	1/1	1/31	2/29
23 289	3/30	4/28	5/28	6/26	7/26	8/24		9/23	10/23	11/21		12/21	288	1/19 2/17 3/19
24 288	4/17	5/17	6/16	7/15	8/14	9/13		10/12	11/11	12/10	287	1/8	2/7	3/8
25 287	4/7	5/7	6/5	7/5	8/3	9/2		10/2	10/31	11/29		12/29	286	1/27 2/26
26 286	3/27	4/26	5/25	6/24	7/24	8/22		9/21	10/20	11/19		12/18	285	1/17 2/15 3/16
27 285	4/14	5/14	6/12	7/12	8/11	9/9		10/9	11/7	12/7	284	1/5	2/4	3/6
28 284	4/4	5/3	6/2	7/1	7/31	8/29		9/28	10/27	11/26		12/26	283	1/24 2/23 3/25
29 283	4/23	5/22	6/21	7/20	8/19	9/17		10/17	11/15	12/15	282	1/14	2/12	3/13
30 282	4/12	5/11	6/10	7/10	8/8	9/7		10/6	11/5	12/4	281	1/3	2/1	3/2
31 281	3/31	4/30	5/29	6/28	7/28	8/26		9/25	10/24	11/23		12/22	280	1/21 2/19 3/20
32 280	4/19	5/19	6/17	7/17	8/15	9/14		10/14	11/12	12/12	279	1/10	2/8	3/10
33 279	4/8	5/8	6/7	7/6	8/5	9/3		10/3	11/2	12/1		12/31	278	1/29 2/27
34 278	3/29	4/27	5/27	6/26	7/25	8/24		9/22	10/22	11/20		12/20	277	1/18 2/17 3/17
35 277	4/16	5/15	6/14	7/13	8/12	9/11		10/10	11/9	12/8	276	1/7	2/5	3/7
36 276	4/5	5/5	6/3	7/3	8/1	8/31		9/30	10/29	11/28		12/27	275	1/26 2/25
37 275	3/26	4/24	5/24	6/22	7/22	8/20	9/19	10/18	11/17	12/17	274	1/15	2/13	3/15
38 274	4/14	5/13	6/12	7/11	8/10	9/8		10/8	11/6	12/6	273	1/4	2/3	3/3
39 273	4/2	5/1	5/31	6/30	7/29	8/28		9/26	10/26	11/24		12/24	272	1/22 2/21 3/22
40 272	4/21	5/20	6/19	7/18	8/17	9/16		10/15	11/14	12/13	271	1/12	2/10	3/11
41 271	4/10	5/10	6/8	7/8	8/6	9/5		10/5	11/3	12/3	270	1/1	1/30	3/1
42 270	3/30	4/29	5/28	6/27	7/27	8/25		9/24	10/23	11/22		12/21	269	1/20 2/18 3/19
43 269	4/17	5/17	6/16	7/15	8/14	9/12		10/12	11/10	12/10	268	1/8	2/6	3/8
44 268	4/7	5/6	6/5	7/4	8/3	9/2		10/1	10/31	11/29		12/29	267	1/27 2/25
45 267	3/27	4/26	5/25	6/24	7/23	8/22		9/21	10/20	11/19		12/18	266	1/16 2/15 3/16
46 266	4/15	5/14	6/13	7/13	8/11	9/10		10/9	11/8	12/7	265	1/6	2/4	3/5
47 265	4/4	5/3	6/2	7/1	7/31	8/29		9/28	10/27	11/26		12/25	264	1/24 2/22 3/24
48 264	4/23	5/22	6/20	7/20	8/18	9/17		10/17	11/15	12/15	263	1/13	2/12	3/13
49 263	4/12	5/11	6/10	7/9	8/8	9/7		10/6	11/5	12/4	262	1/3	2/1	3/2
50 262	4/1	5/1	5/30	6/29	7/28	8/27		9/25	10/25	11/23		12/23	261	1/21 2/20 3/20
51 261	4/18	5/18	6/17	7/17	8/15	9/14		10/13	11/12	12/11	260	1/10	2/8	3/10
52 260	4/8	5/8	6/6	7/6	8/5	9/3		10/3	11/1	12/1		12/30	259	1/29 2/27
53 259	3/29	4/27	5/27	6/25	7/25	8/24		9/22	10/22	11/20		12/20	258	1/18 2/17 3/18
54 258	4/17	5/16	6/15	7/14	8/13	9/11		10/11	11/10	12/9	257	1/8	2/6	3/6
55 257	4/5	5/4	6/3	7/3	8/1	8/31		9/29	10/29	11/27		12/27	256	1/25 2/24



# SELEUCID ERA

YEAR B.C.	NIS	ATA	SIM	DUZ	ABU	ULU	UII	TAS	ARA	KIS	TEB	SHA	ADD	A II
56 256	3/26	4/24	5/23	6/22	7/22	8/20	9/19	10/18	11/17	12/16	255	1/15	2/13	3/15
57 255	4/14	5/13	6/11	7/11	8/9	9/8		10/8	11/6	12/6	254	1/4	2/2	3/4
58 254	4/3	5/2	6/1	6/30	7/30	8/28		9/27	10/26	11/25		12/24	253	1/23 2/21 3/22
59 253	4/20	5/20	6/18	7/18	8/17	9/15		10/15	11/13	12/13	252	1/11	2/10	3/11
60 252	4/9	5/9	6/8	7/7	8/6	9/5		10/4	11/3	12/2	251	1/1	1/30	2/28
61 251	3/30	4/29	5/28	6/27	7/26	8/25		9/23	10/23	11/22		12/21	250	1/19 2/18 3/19
62 250	4/18	5/17	6/16	7/16	8/14	9/13		10/12	11/11	12/10	249	1/9	2/7	3/8
63 249	4/7	5/6	6/4	7/4	8/3	9/1		10/1	10/30	11/29		12/28	248	1/27 2/25
64 248	3/27	4/25	5/25	6/23	7/23	8/22		9/20	10/20	11/18		12/18	247	1/16 2/15 3/16
65 247	4/15	5/14	6/13	7/12	8/11	9/10		10/9	11/8	12/7	246	1/6	2/4	3/6

Year 65 Seleucid era = year 1 Arsacid era

66 246	4/4	5/4	6/2	7/2	7/31	8/30		9/28	10/28	11/26		12/26	245	1/24 2/23 3/23
67 245	4/22	5/21	6/20	7/20	8/18	9/17		10/16	11/15	12/14	244	1/13	2/11	3/13
68 244	4/11	5/11	6/9	7/9	8/8	9/6		10/6	11/4	12/4	243	1/2	2/1	3/2
69 243	3/31	4/30	5/30	6/28	7/28	8/27		9/25	10/25	11/23		12/23	242	1/21 2/19 3/21
70 242	4/19	5/19	6/18	7/17	8/16	9/15		10/14	11/13	12/12	241	1/10	2/9	3/9
71 241	4/8	5/7	6/6	7/6	8/4	9/3		10/2	11/1	11/30		12/30	240	1/28 2/27
72 240	3/29	4/27	5/26	6/25	7/25	8/23		9/22	10/21	11/20		12/19	239	1/18 2/16 3/18
73 239	4/17	5/16	6/14	7/14	8/13	9/11		10/11	11/9	12/9	238	1/7	2/5	3/7
74 238	4/6	5/5	6/4	7/3	8/2	9/1		9/30	10/30	11/28		12/27	237	1/26 2/24
75 237	3/25	4/23	5/23	6/22	7/21	8/20	9/18	10/18	11/16	12/16	236	1/14	2/13	3/14
76 236	4/13	5/12	6/11	7/10	8/9	9/8		10/7	11/6	12/5	235	1/4	2/2	3/4
77 235	4/2	5/2	5/31	6/30	7/30	8/28		9/27	10/26	11/25		12/24	234	1/22 2/21 3/23
78 234	4/21	5/21	6/19	7/19	8/17	9/16		10/16	11/14	12/14	233	1/12	2/10	3/11
79 233	4/9	5/9	6/7	7/7	8/6	9/4		10/4	11/2	12/2		12/31	232	1/30 2/28
80 232	3/30	4/28	5/28	6/26	7/26	8/25		9/23	10/23	11/21		12/21	231	1/19 2/18 3/20
81 231	4/18	5/17	6/16	7/15	8/14	9/12		10/12	11/11	12/10	230	1/9	2/8	3/9
82 230	4/8	5/7	6/5	7/5	8/3	9/2		10/2	10/31	11/29		12/29	229	1/27 2/26
83 229	3/27	4/25	5/24	6/23	7/23	8/21		9/20	10/19	11/18		12/17	228	1/16 2/14 3/16
84 228	4/15	5/14	6/12	7/12	8/11	9/9		10/9	11/7	12/7	227	1/5	2/4	3/5
85 227	4/4	5/3	6/2	7/1	7/31	8/30		9/28	10/28	11/26		12/26	226	1/24 2/23 3/24

# SELEUCID ERA

Year 86 Seleucid era = year 22 Arsacid era

YEAR B.C.	Nis	Aia	Sim	Duz	Abu	Ulu	U II	Tas	Ara	Kis	Teb	Sha	Add	A II	
86	226	4/22	5/22	6/21	7/20	8/19	9/18	10/17	11/16	12/15	225	1/13	2/12	3/12	
87	225	4/11	5/11	6/9	7/9	8/7	9/6	10/5	11/4	12/3	224	1/2	1/31	3/2	
88	224	3/31	4/30	5/29	6/28	7/28	8/26	9/25	10/24	11/23	12/22	223	1/21	2/19	3/21
89	223	4/19	5/19	6/17	7/17	8/15	9/14	10/14	11/12	12/12	222	1/10	2/9	3/10	
90	222	4/9	5/8	6/7	7/6	8/5	9/4	10/3	11/2	12/1	12/30	221	1/29	2/27	
91	221	3/28	4/26	5/26	6/25	7/24	8/23	9/21	10/21	11/19	12/19	220	1/17	2/16	3/17
92	220	4/16	5/16	6/14	7/14	8/12	9/11	10/11	11/9	12/8	219	1/7	2/5	3/7	
93	219	4/5	5/5	6/3	7/3	8/2	8/31	9/30	10/29	11/28	12/27	218	1/26	2/24	
94	218	3/25	4/24	5/24	6/23	7/22	8/21	9/19	10/19	11/17	12/17	217	1/15	2/14	3/14
95	217	4/12	5/12	6/11	7/10	8/9	9/8	10/7	11/6	12/5	216	1/4	2/2	3/4	
96	216	4/2	5/2	5/31	6/30	7/29	8/28	9/27	10/26	11/24	12/24	215	1/22	2/21	3/22
97	215	4/21	5/20	6/19	7/19	8/17	9/16	10/15	11/14	12/13	214	1/12	2/10	3/12	
98	214	4/10	5/10	6/8	7/8	8/7	9/5	10/5	11/3	12/3	213	1/1	1/31	2/29	
99	213	3/30	4/28	5/28	6/26	7/26	8/24	9/23	10/23	11/21	12/21	212	1/19	2/17	3/19
100	212	4/18	5/17	6/16	7/15	8/14	9/13	10/12	11/11	12/10	211	1/8	2/7	3/8	
101	211	4/7	5/7	6/5	7/5	8/3	9/2	10/2	10/31	11/29	12/29	210	1/27	2/26	
102	210	3/27	4/26	5/25	6/24	7/24	8/22	9/21	10/20	11/19	12/18	209	1/17	2/15	3/15
103	209	4/14	5/14	6/12	7/12	8/11	9/9	10/9	11/7	12/7	208	1/5	2/4	3/5	
104	208	4/3	5/3	6/2	7/1	7/31	8/29	9/28	10/28	11/26	12/26	207	1/24	2/23	3/24
105	207	4/22	5/22	6/21	7/20	8/19	9/17	10/17	11/15	12/15	206	1/14	2/12	3/13	
106	206	4/12	5/11	6/10	7/10	8/8	9/7	10/6	11/5	12/4	205	1/3	2/1	3/2	
107	205	3/31	4/30	5/29	6/28	7/28	8/26	9/25	10/24	11/23	12/22	204	1/21	2/19	3/20
108	204	4/19	5/19	6/17	7/17	8/15	9/14	10/14	11/12	12/12	203	1/10	2/8	3/10	
109	203	4/9	5/8	6/7	7/6	8/5	9/3	10/3	11/2	12/1	12/31	202	1/29	2/27	
110	202	3/29	4/27	5/27	6/26	7/25	8/24	9/22	10/22	11/20	12/20	201	1/18	2/17	3/17
111	201	4/16	5/15	6/14	7/14	8/12	9/11	10/10	11/9	12/8	200	1/7	2/5	3/7	
112	200	4/5	5/5	6/3	7/3	8/1	8/31	9/30	10/28	11/28	12/27	199	1/25	2/24	
113	199	3/25	4/24	5/24	6/22	7/22	8/20	9/19	10/18	11/17	12/17	198	1/15	2/13	3/15
114	198	4/13	5/13	6/12	7/11	8/10	9/8	10/8	11/6	12/6	197	1/4	2/3	3/3	
115	197	4/2	5/1	5/31	6/30	7/29	8/28	9/26	10/26	11/24	12/24	196	1/22	2/21	3/22

# SELEUCID ERA

Year 116 Seleucid era = year 52 Arsacid era

YEAR B.C.	NIS	AlA	SIM	DUZ	ARU	ULU	UII	TAS	ARA	KIS	TBB	SHA	ADD	A II
116 196	4/21	5/20	6/19	7/18	8/17	9/16		10/15	11/14	12/13	195	1/12	2/10	3/11
117 195	4/10	5/10	6/8	7/8	8/6	9/5		10/5	11/3	12/3	194	1/1	1/30	3/1
118 194	3/31	4/29	5/28	6/27	7/27	8/25		9/24	10/23	11/22	12/21	193	1/20	2/18 3/19
119 193	4/17	5/17	6/16	7/15	8/14	9/12		10/12	11/10	12/10	192	1/8	2/6	3/8
120 192	4/6	5/6	6/5	7/4	8/3	9/2		10/1	10/31	11/29	12/29	191	1/27	2/25
121 191	3/27	4/26	5/25	6/24	7/23	8/22		9/21	10/20	11/19	12/18	190	1/16	2/15 3/16
122 190	4/14	5/14	6/13	7/12	8/11	9/10		10/9	11/8	12/7	189	1/6	2/4	3/5
123 189	4/3	5/3	6/2	7/1	7/31	8/29		9/28	10/27	11/26	12/25	188	1/24	2/22 3/24
124 188	4/22	5/22	6/20	7/20	8/18	9/17		10/17	11/15	12/15	187	1/13	2/12	3/13
125 187	4/12	5/11	6/10	7/9	8/8	9/7		10/6	11/5	12/4	186	1/3	2/1	3/2
126 186	4/1	5/1	5/30	6/29	7/28	8/27		9/25	10/25	11/23	12/23	185	1/21	2/20 3/20
127 185	4/19	5/18	6/17	7/17	8/15	9/14		10/13	11/12	12/11	184	1/10	2/8	3/10
128 184	4/8	5/8	6/6	7/6	8/5	9/3		10/2	11/1	12/1	12/30	183	1/29	2/27
129 183	3/28	4/27	5/27	6/25	7/25	8/24		9/22	10/21	11/20	12/19	182	1/17	2/16 3/17
130 182	4/16	5/16	6/14	7/14	8/13	9/11		10/11	11/10	12/9	181	1/7	2/6	3/6
131 181	4/4	5/4	6/3	7/2	8/1	8/31		9/29	10/29	11/27	12/27	180	1/25	2/24
132 180	3/25	4/24	5/23	6/22	7/21	8/20	9/18	10/18	11/17	12/16	179	1/15	2/13	3/15
133 179	4/13	5/13	6/11	7/11	8/9	9/8		10/8	11/6	12/6	178	1/4	2/2	3/4
134 178	4/3	5/2	6/1	6/30	7/30	8/28		9/27	10/26	11/25	12/24	177	1/23	2/21 3/22
135 177	4/21	5/20	6/18	7/18	8/17	9/15		10/14	11/13	12/13	176	1/11	2/10	3/11
136 176	4/10	5/9	6/8	7/8	8/6	9/5		10/4	11/2	12/2	175	1/1	1/30	2/28
137 175	3/30	4/29	5/28	6/27	7/26	8/25		9/24	10/23	11/22	12/21	174	1/19	2/18 3/19
138 174	4/18	5/17	6/16	7/16	8/14	9/13		10/12	11/11	12/10	173	1/9	2/7	3/8
139 173	4/6	5/6	6/4	7/4	8/3	9/1		10/1	10/30	11/29	12/28	172	1/27	2/25
140 172	3/26	4/25	5/25	6/23	7/23	8/22		9/20	10/20	11/18	12/18	171	1/16	2/15 3/16
141 171	4/14	5/14	6/13	7/12	8/11	9/10		10/9	11/8	12/7	170	1/6	2/4	3/6
142 170	4/4	5/4	6/2	7/2	7/31	8/30		9/28	10/28	11/26	12/26	169	1/24	2/23 3/23
143 169	4/22	5/21	6/20	7/20	8/18	9/17		10/16	11/15	12/14	168	1/13	2/11	3/13
144 168	4/11	5/11	6/9	7/9	8/8	9/6		10/6	11/4	12/4	167	1/2	2/1	3/2
145 167	4/1	4/30	5/30	6/28	7/28	8/27		9/25	10/24	11/23	12/22	166	1/20	2/19 3/21

# SELEUCID ERA

Year 146 Seleucid era = year 82 Arsacid era

YEAR B.C.	NIS	AIA	SIM	DUZ	ABU	ULU	UII	TAS	ARA	KIS	TEB	SHA	ADD	A II
146	166	4/20	5/19	6/18	7/17	8/16	9/14	10/14	11/13	12/12	165	1/10	2/9	3/9
147	165	4/8	5/7	6/6	7/6	8/4	9/3	10/2	11/1	11/30	12/29	164	1/28	2/26
148	164	3/28	4/26	5/26	6/25	7/25	8/23	9/22	10/21	11/20	12/19	163	1/18	2/16 3/17
149	163	4/16	5/15	6/14	7/14	8/12	9/11	10/11	11/9	12/9	162	1/7	2/6	3/7
150	162	4/5	5/5	6/3	7/3	8/1	8/31	9/30	10/29	11/28	12/28	161	1/26	2/24
151	161	3/25	4/23	5/23	6/22	7/21	8/19	9/18	10/17	11/16	12/16	160	1/14	2/13 3/15
152	160	4/13	5/12	6/11	7/10	8/8	9/7	10/7	11/5	12/5	159	1/4	2/2	3/4
153	159	4/3	5/2	5/31	6/30	7/30	8/28	9/26	10/26	11/25	12/24	158	1/22	2/21 3/23
154	158	4/21	5/21	6/19	7/19	8/17	9/16	10/16	11/14	12/14	157	1/12	2/10	3/11
155	157	4/9	5/9	6/8	7/7	8/6	9/4	10/4	11/2	12/2	12/31	156	1/30	2/28
156	156	3/29	4/28	5/28	6/26	7/26	8/25	9/23	10/23	11/21	12/21	155	1/19	2/18 3/19
157	155	4/17	5/17	6/16	7/15	8/14	9/13	10/12	11/11	12/10	154	1/9	2/7	3/9
158	154	4/7	5/6	6/5	7/4	8/3	9/2	10/2	10/31	11/30	12/29	153	1/28	2/26
159	153	3/26	4/25	5/24	6/23	7/23	8/21	9/20	10/19	11/18	12/17	152	1/16	2/14 3/16
160	152	4/14	5/14	6/12	7/11	8/10	9/9	10/9	11/7	12/7	151	1/5	2/4	3/5
161	151	4/4	5/3	6/2	7/1	7/31	8/29	9/28	10/28	11/26	12/26	150	1/24	2/23 3/24
162	150	4/23	5/22	6/21	7/20	8/19	9/18	10/17	11/16	12/15	149	1/13	2/12	3/12
163	149	4/11	5/11	6/9	7/9	8/7	9/6	10/5	11/4	12/3	148	1/2	1/31	3/2
164	148	3/31	4/30	5/29	6/28	7/28	8/26	9/25	10/24	11/23	12/22	147	1/21	2/19 3/21
165	147	4/19	5/19	6/17	7/17	8/15	9/14	10/14	11/12	12/12	146	1/10	2/9	3/10
166	146	4/8	5/8	6/7	7/6	8/5	9/4	10/3	11/2	12/1	12/30	145	1/29	2/27
167	145	3/28	4/26	5/26	6/25	7/24	8/23	9/21	10/21	11/19	12/19	144	1/17	2/16 3/17
168	144	4/16	5/16	6/14	7/14	8/12	9/11	10/11	11/9	12/8	143	1/7	2/5	3/7
169	143	4/5	5/5	6/3	7/3	8/2	8/31	9/30	10/29	11/28	12/27	142	1/26	2/24
170	142	3/26	4/24	5/24	6/23	7/22	8/20	9/19	10/19	11/17	12/16	141	1/15	2/14 3/14
171	141	4/13	5/12	6/11	7/10	8/9	9/7	10/7	11/5	12/5	140	1/3	2/2	3/3
172	140	4/2	5/2	5/31	6/30	7/29	8/27	9/26	10/25	11/24	12/24	139	1/22	2/20 3/22
173	139	4/21	5/20	6/19	7/19	8/17	9/16	10/15	11/13	12/13	138	1/12	2/10	3/11
174	138	4/10	5/10	6/8	7/8	8/7	9/5	10/5	11/3	12/3	137	1/1	1/30	2/29
175	137	3/29	4/27	5/27	6/26	7/25	8/24	9/23	10/23	11/21	12/21	136	1/19	2/17 3/19

# SELEUCID ERA

Year 176 Seleucid era = year 112 Arsacid era

YEAR B.C.	NIS	AIA	SIM	DUZ	ABU	ULU	UII	TAS	ARA	KIS	TBB	SHA	ADD	A II
176	136	4/17	5/16	6/15	7/14	8/13	9/12	10/12	11/11	12/10	135	1/8	2/7	3/8
177	135	4/7	5/7	6/5	7/5	8/3	9/2	10/2	10/31	11/29	12/29	134	1/27	2/26
178	134	3/27	4/26	5/25	6/23	7/23	8/21	9/20	10/20	11/19	12/18	133	1/17	2/15 3/16
179	133	4/14	5/14	6/12	7/12	8/11	9/9	10/9	11/7	12/7	132	1/5	2/4	3/5
180	132	4/4	5/3	6/2	7/1	7/31	8/29	9/29	10/27	11/26	12/26	131	1/24	2/23 3/24
181	131	4/22	5/22	6/21	7/20	8/19	9/17	10/17	11/15	12/15	130	1/13	2/12	3/13
182	130	4/11	5/11	6/10	7/10	8/8	9/7	10/6	11/5	12/4	129	1/3	2/1	3/2
183	129	3/31	4/30	5/29	6/28	7/27	8/26	9/25	10/24	11/23	12/22	128	1/20	2/19 3/20
184	128	4/18	5/18	6/17	7/16	8/15	9/14	10/13	11/12	12/12	127	1/10	2/8	3/10
185	127	4/8	5/8	6/7	7/6	8/4	9/3	10/3	11/1	12/1	12/31	126	1/29	2/27
186	126	3/29	4/27	5/27	6/26	7/25	8/24	9/22	10/22	11/20	12/20	125	1/18	2/17 3/17
187	125	4/16	5/15	6/14	7/13	8/12	9/11	10/10	11/9	12/8	124	1/7	2/5	3/7
188	124	4/5	5/5	6/3	7/2	8/1	8/30	9/28	10/28	11/27	12/26	123	1/25	2/24
189	123	3/26	4/24	5/24	6/22	7/22	8/20 9/19	10/17	11/17	12/16	122	1/15	2/13	3/15
190	122	4/13	5/13	6/12	7/11	8/10	9/8	10/8	11/6	12/6	121	1/4	2/3	3/3
191	121	4/2	5/1	5/31	6/30	7/29	8/28	9/26	10/26	11/24	12/23	120	1/22	2/20 3/21
192	120	4/20	5/20	6/18	7/18	8/17	9/15	10/15	11/14	12/13	119	1/11	2/10	3/11
193	119	4/9	5/9	6/7	7/7	8/5	9/4	10/4	11/3	12/3	118	1/1	1/30	3/1
194	118	3/30	4/28	5/28	6/27	7/26	8/25	9/24	10/23	11/22	12/21	117	1/20	2/18 3/19
195	117	4/17	5/16	6/14	7/14	8/12	9/11	10/11	11/10	12/10	116	1/8	2/6	3/8
196	116	4/7	5/6	6/5	7/4	8/3	9/2	10/1	10/31	11/29	12/29	115	1/27	2/25
197	115	3/27	4/26	5/25	6/24	7/23	8/22	9/21	10/20	11/19	12/18	114	1/16	2/15 3/16
198	114	4/15	5/14	6/13	7/13	8/11	9/10	10/9	11/8	12/7	113	1/6	2/4	3/5
199	113	4/3	5/3	6/2	7/1	7/31	8/29	9/28	10/27	11/26	12/25	112	1/24	2/22 3/24
200	112	4/22	5/22	6/20	7/20	8/18	9/17	10/17	11/15	12/14	111	1/12	2/11	3/12
201	111	4/11	5/10	6/9	7/9	8/8	9/7	10/6	11/5	12/4	110	1/2	2/1	3/2
202	110	3/31	4/30	5/29	6/28	7/28	8/27	9/25	10/25	11/23	12/23	109	1/21	2/19 3/20
203	109	4/18	5/18	6/16	7/16	8/15	9/13	10/13	11/12	12/11	108	1/10	2/8	3/10
204	108	4/8	5/8	6/6	7/6	8/5	9/3	10/3	11/1	12/1	12/30	107	1/29	2/27
205	107	3/29	4/27	5/27	6/25	7/25	8/24	9/22	10/22	11/20	12/20	106	1/18	2/17 3/18



# SELEUCID ERA

Year 206 Seleucid era = year 142 Arsacid era

YEAR B.C.	NIS	ALA	SIM	DUZ	ABU	ULU	U II	TAS	ARA	KIS	TEB	SHA	ADD	A II
206	106	4/17	5/16	6/15	7/14	8/13	9/11	10/11	11/10	12/9	105	1/8	2/6	3/6
207	105	4/5	5/4	6/3	7/3	8/1	8/31	9/29	10/29	11/27	12/27	104	1/25	2/24
208	104	3/25	4/24	5/23	6/22	7/21	8/20	9/18	10/17	11/16	12/15	103	1/14	2/12 3/14
209	103	4/13	5/12	6/11	7/10	8/9	9/8	10/7	11/6	12/5	102	1/4	2/2	3/3
210	102	4/2	5/1	5/31	6/29	7/29	8/28	9/27	10/26	11/25	12/24	101	1/23	2/21 3/21
211	101	4/20	5/20	6/18	7/18	8/17	9/15	10/15	11/13	12/13	100	1/11	2/10	3/11
212	100	4/9	5/9	6/8	7/7	8/6	9/5	10/4	11/3	12/2	99	1/1	1/30	2/28
213	99	3/30	4/29	5/28	6/27	7/26	8/25	9/24	10/23	11/22	12/21	98	1/19	2/18 3/19
214	98	4/18	5/17	6/16	7/16	8/14	9/13	10/12	11/11	12/10	97	1/9	2/7	3/8
215	97	4/6	5/6	6/4	7/4	8/3	9/1	10/1	10/30	11/29	12/28	96	1/27	2/25
216	96	3/27	4/25	5/25	6/23	7/23	8/22	9/20	10/20	11/18	12/18	95	1/16	2/15 3/16
217	95	4/14	5/14	6/13	7/12	8/11	9/9	10/9	11/7	12/6	94	1/5	2/3	3/5
218	94	4/3	5/3	6/2	7/1	7/31	8/30	9/28	10/28	11/26	12/26	93	1/24	2/23 3/23
219	93	4/21	5/21	6/20	7/19	8/18	9/17	10/16	11/15	12/14	92	1/13	2/11	3/12
220	92	4/11	5/10	6/9	7/8	8/7	9/6	10/6	11/4	12/4	91	1/2	1/31	3/2
221	91	3/31	4/30	5/30	6/28	7/28	8/27	9/25	10/25	11/23	12/23	90	1/21	2/19 3/21
222	90	4/19	5/19	6/18	7/17	8/16	9/15	10/14	11/13	12/12	89	1/10	2/9	3/9
223	89	4/8	5/7	6/6	7/6	8/4	9/3	10/2	11/1	11/30	12/30	88	1/28	2/27
224	88	3/28	4/27	5/26	6/25	7/25	8/23	9/22	10/21	11/20	12/19	87	1/18	2/16 3/18
225	87	4/16	5/16	6/14	7/14	8/13	9/11	10/11	11/9	12/9	86	1/7	2/5	3/7
226	86	4/5	5/5	6/4	7/3	8/2	9/1	9/30	10/30	11/28	12/27	85	1/26	2/24
227	85	3/24	4/23	5/23	6/21	7/21	8/20	9/18	10/18	11/16	12/16	84	1/14	2/13 3/14
228	84	4/12	5/12	6/11	7/10	8/9	9/8	10/7	11/6	12/5	83	1/4	2/2	3/4
229	83	4/2	5/2	5/31	6/30	7/30	8/28	9/27	10/26	11/25	12/24	82	1/22	2/21 3/23
230	82	4/21	5/21	6/19	7/19	8/17	9/16	10/16	11/14	12/14	81	1/12	2/10	3/11
231	81	4/9	5/9	6/7	7/7	8/6	9/4	10/4	11/2	12/2	12/31	80	1/30	2/28
232	80	3/30	4/28	5/28	6/26	7/26	8/25	9/23	10/23	11/21	12/21	79	1/19	2/18 3/19
233	79	4/18	5/17	6/16	7/15	8/14	9/13	10/12	11/11	12/10	78	1/9	2/7	3/9
234	78	4/7	5/7	6/5	7/4	8/3	9/2	10/1	10/31	11/29	12/28	77	1/27	2/25
235	77	3/26	4/25	5/24	6/23	7/23	8/21	9/20	10/19	11/18	12/17	76	1/15	2/14 3/15

# SELEUCID ERA

Year 236 Seleucid era = year 172 Arsacid era

YEAR B.C.	NIS	AIA	SIM	DUZ	ABU	ULU	U II	TAS	ARA	KIS	TBB	SHA	ADD	A II
236	76	4/14	5/13	6/12	7/12	8/11	9/9	10/9	11/7	12/6	75	1/5	2/3	3/4
237	75	4/3	5/2	6/1	7/1	7/31	8/29	9/28	10/28	11/26	12/25	74	1/24	2/22 3/23
238	74	4/22	5/21	6/20	7/20	8/18	9/17	10/17	11/15	12/15	73	1/13	2/12	3/12
239	73	4/11	5/11	6/9	7/9	8/7	9/6	10/5	11/4	12/3	72	1/2	1/31	3/2
240	72	3/31	4/30	5/29	6/28	7/28	8/26	9/25	10/24	11/23	12/22	71	1/21	2/19 3/21
241	71	4/19	5/19	6/17	7/17	8/15	9/14	10/14	11/12	12/12	70	1/10	2/9	3/10
242	70	4/9	5/8	6/7	7/6	8/5	9/4	10/3	11/2	12/1	12/30	69	1/29	2/27
243	69	3/28	4/26	5/26	6/25	7/24	8/23	9/21	10/21	11/19	12/19	68	1/17	2/16 3/17
244	68	4/16	5/15	6/13	7/13	8/11	9/10	10/10	11/8	12/7	67	1/6	2/4	3/6
245	67	4/5	5/4	6/2	7/2	8/1	8/30	9/29	10/28	11/27	12/26	66	1/25	2/23
246	66	3/25	4/23	5/23	6/22	7/21	8/20	9/18	10/18	11/16	12/16	65	1/14	2/13 3/13
247	65	4/12	5/11	6/10	7/9	8/8	9/7	10/6	11/5	12/4	64	1/3	2/1	3/3
248	64	4/2	5/1	5/30	6/29	7/28	8/27	9/26	10/25	11/24	12/24	63	1/22	2/21 3/22
249	63	4/21	5/20	6/18	7/18	8/16	9/15	10/14	11/13	12/13	62	1/12	2/10	3/12
250	62	4/10	5/10	6/8	7/7	8/6	9/4	10/4	11/2	12/2	12/31	61	1/30	2/28
251	61	3/29	4/27	5/27	6/25	7/25	8/23	9/22	10/22	11/20	12/20	60	1/18	2/16 3/18
252	60	4/17	5/16	6/15	7/14	8/13	9/12	10/11	11/10	12/9	59	1/8	2/6	3/8
253	59	4/7	5/6	6/4	7/4	8/2	9/1	10/1	10/30	11/28	12/28	58	1/26	2/25
254	58	3/26	4/25	5/24	6/23	7/23	8/21	9/20	10/19	11/18	12/17	57	1/16	2/14 3/15
255	57	4/13	5/13	6/11	7/11	8/10	9/8	10/8	11/6	12/6	56	1/4	2/3	3/4
256	56	4/3	5/2	6/1	6/30	7/30	8/28	9/27	10/26	11/25	12/25	55	1/23	2/22 3/24
257	55	4/22	5/21	6/20	7/19	8/18	9/16	10/16	11/15	12/14	54	1/13	2/12	3/13
258	54	4/12	5/11	6/9	7/9	8/7	9/6	10/5	11/4	12/3	53	1/2	2/1	3/1
259	53	3/31	4/30	5/29	6/27	7/27	8/25	9/24	10/23	11/22	12/21	52	1/20	2/19 3/20
260	52	4/19	5/18	6/16	7/16	8/14	9/13	10/13	11/11	12/11	51	1/9	2/8	3/9
261	51	4/8	5/8	6/6	7/5	8/4	9/2	10/2	11/1	11/30	12/30	50	1/28	2/26
262	50	3/28	4/26	5/26	6/25	7/24	8/23	9/21	10/21	11/19	12/19	49	1/17	2/16 3/16
263	49	4/15	5/14	6/13	7/12	8/11	9/10	10/9	11/8	12/7	48	1/6	2/4	3/6
264	48	4/4	5/4	6/2	7/2	7/31	8/30	9/29	10/28	11/27	12/27	47	1/25	2/24
265	47	3/25	4/23	5/23	6/21	7/21	8/19	9/18	10/18	11/16	12/16	46	1/15	2/13 3/15

# SELEUCID ERA

Year 266 Seleucid era = year 202 Arsacid era

YEAR B.C.	NIS	AIA	SIM	DUZ	ABU	ULU	UII	TAS	ARA	KIS	TEB	SHA	ADD	A II
266	46	4/13	5/12	6/11	7/10	8/9	9/7	10/7	11/6	12/5	45	1/4	2/3	3/3
267	45	4/2	5/1	5/30	6/29	7/28	8/27	9/25	10/25	11/23	12/23	44	1/21	2/20 3/21
268	44	4/20	5/19	6/18	7/17	8/16	9/15	10/14	11/13	12/12	43	1/11	2/9	3/11
269	43	4/10	5/9	6/7	7/7	8/5	9/4	10/4	11/2	12/2	12/31	42	1/29	2/28
270	42	3/30	4/28	5/27	6/26	7/26	8/24	9/23	10/22	11/21	12/20	41	1/19	2/17 3/18
271	41	4/16	5/16	6/15	7/14	8/13	9/11	10/11	11/9	12/9	40	1/7	2/5	3/7
272	40	4/6	5/5	6/4	7/3	8/2	9/1	9/30	10/30	11/28	12/28	39	1/26	2/24
273	39	3/26	4/25	5/24	6/23	7/22	8/21	9/20	10/19	11/18	12/17	38	1/15	2/14 3/15
274	38	4/14	5/13	6/12	7/12	8/10	9/9	10/8	11/7	12/6	37	1/5	2/3	3/4
275	37	4/3	5/2	6/1	6/30	7/30	8/28	9/27	10/26	11/25	12/24	36	1/23	2/21 3/23
276	36	4/22	5/21	6/19	7/19	8/17	9/16	10/16	11/14	12/14	35	1/12	2/11	3/12
277	35	4/11	5/10	6/9	7/8	8/7	9/6	10/5	11/4	12/3	34	1/2	1/31	3/2
278	34	4/1	4/30	5/29	6/28	7/27	8/26	9/24	10/24	11/22	12/22	33	1/20	2/19 3/19
279	33	4/18	5/17	6/16	7/16	8/14	9/13	10/12	11/11	12/10	32	1/9	2/7	3/9
280	32	4/7	5/7	6/5	7/5	8/4	9/2	10/2	10/31	11/30	12/29	31	1/28	2/26
281	31	3/28	4/26	5/26	6/24	7/24	8/23	9/21	10/21	11/19	12/19	30	1/17	2/16 3/17
282	30	4/16	5/15	6/14	7/13	8/12	9/10	10/10	11/9	12/8	29	1/7	2/5	3/5
283	29	4/4	5/3	6/2	7/2	7/31	8/30	9/28	10/28	11/27	12/27	28	1/25	2/24
284	28	3/25	4/23	5/23	6/21	7/21	8/19	9/18	10/17	11/16	12/15	27	1/14	2/12 3/14
285	27	4/13	5/12	6/10	7/10	8/8	9/7	10/7	11/5	12/5	26	1/3	2/2	3/4
286	26	4/2	5/2	5/31	6/29	7/29	8/27	9/26	10/25	11/24	12/23	25	1/22	2/21 3/21
287	25	4/20	5/20	6/18	7/17	8/16	9/14	10/14	11/12	12/12	24	1/10	2/9	3/10
288	24	4/9	5/8	6/7	7/7	8/5	9/4	10/3	11/2	12/1	12/31	23	1/29	2/27
289	23	3/29	4/28	5/27	6/26	7/25	8/24	9/23	10/22	11/21	12/20	22	1/18	2/17 3/18
290	22	4/17	5/16	6/15	7/15	8/13	9/12	10/11	11/10	12/9	21	1/8	2/6	3/7
291	21	4/5	5/5	6/3	7/3	8/2	8/31	9/30	10/29	11/28	12/27	20	1/26	2/24
292	20	3/26	4/24	5/24	6/22	7/22	8/21	9/19	10/19	11/17	12/17	19	1/15	2/14 3/15
293	19	4/14	5/13	6/12	7/11	8/10	9/9	10/8	11/7	12/6	18	1/5	2/3	3/5
294	18	4/4	5/3	6/1	7/1	7/30	8/29	9/27	10/27	11/25	12/25	17	1/24	2/22 3/23
295	17	4/22	5/21	6/20	7/19	8/17	9/16	10/15	11/14	12/13	16	1/12	2/10	3/12



# SELEUCID ERA

Year 296 Seleucid era = year 232 Arsacid era

YEAR B.C.	NIS	AIA	SIM	DUZ	ABU	ULU	U II	TAS	ARA	KIS	TEB	SHA	ADD	A II
296	16	4/11	5/11	6/9	7/9	8/7	9/5	10/5	11/3	12/3	15	1/1	1/31	3/1
297	15	3/31	4/29	5/29	6/27	7/27	8/26	9/24	10/24	11/22	12/22	14	1/20	2/18 3/20
298	14	4/19	5/18	6/17	7/16	8/15	9/14	10/13	11/12	12/11	13	1/9	2/8	3/8
299	13	4/7	5/6	6/5	7/5	8/3	9/2	10/1	10/31	11/29	12/29	12	1/27	2/26
300	12	3/28	4/26	5/25	6/24	7/24	8/22	9/21	10/20	11/19	12/18	11	1/17	2/15 3/17
301	11	4/16	5/15	6/13	7/13	8/11	9/10	10/10	11/8	12/8	10	1/7	2/5	3/7
302	10	4/5	5/4	6/3	7/2	8/1	8/31	9/29	10/29	11/27	12/27	9	1/26	2/24
303	9	3/25	4/23	5/23	6/21	7/20	8/18 9/17	10/17	11/15	12/15	8	1/14	2/12	3/14
304	8	4/13	5/12	6/10	7/10	8/8	9/7	10/6	11/5	12/4	7	1/3	2/1	3/3
305	7	4/2	5/1	5/30	6/29	7/29	8/27	9/26	10/25	11/24	12/23	6	1/21	2/20 3/22
306	6	4/20	5/20	6/18	7/18	8/16	9/15	10/15	11/13	12/13	5	1/11	2/9	3/10
307	5	4/8	5/8	6/6	7/6	8/5	9/3	10/3	11/1	12/1	12/30	4	1/29	2/27
308	4	3/29	4/27	5/27	6/25	7/25	8/24	9/22	10/22	11/20	12/20	3	1/18	2/17 3/18
309	3	4/17	5/16	6/15	7/14	8/13	9/12	10/11	11/10	12/9	2	1/8	2/6	3/8
310	2	4/7	5/6	6/4	7/4	8/2	9/1	10/1	10/31	11/29	12/29	1	1/27	2/26
311	1	3/26	4/24	5/24	6/22	7/22	8/20	9/19	10/18	11/17	12/17	A.D. 1	1/15	2/14 3/16
312	A.D. 1	4/14	5/13	6/12	7/11	8/10	9/8	10/8	11/6	12/6	2	1/4	2/3	3/4
313	2	4/3	5/2	6/1	6/30	7/30	8/29	9/27	10/27	11/25	12/25	3	1/23	2/22 3/23
314	3	4/22	5/21	6/20	7/19	8/18	9/17	10/16	11/15	12/14	4	1/12	2/11	3/11
315	4	4/10	5/10	6/8	7/8	8/6	9/5	10/4	11/3	12/2	5	1/1	1/30	3/1
316	5	3/30	4/29	5/28	6/27	7/27	8/25	9/24	10/23	11/22	12/21	6	1/20	2/18 3/20
317	6	4/18	5/18	6/16	7/16	8/14	9/13	10/13	11/11	12/11	7	1/9	2/8	3/9
318	7	4/8	5/7	6/6	7/5	8/4	9/3	10/2	11/1	12/1	12/30	8	1/29	2/27
319	8	3/28	4/26	5/25	6/24	7/23	8/22	9/20	10/20	11/19	12/18	9	1/17	2/16 3/17
320	9	4/16	5/15	6/13	7/13	8/11	9/10	10/10	11/8	12/7	10	1/6	2/5	3/7
321	10	4/5	5/5	6/3	7/2	8/1	8/30	9/29	10/28	11/27	12/26	11	1/25	2/23
322	11	3/25	4/23	5/23	6/22	7/21	8/20 9/18	10/18	11/16	12/16	12	1/14	2/13	3/13
323	12	4/12	5/11	6/10	7/9	8/8	9/7	10/6	11/5	12/4	13	1/3	2/1	3/3
324	13	4/1	5/1	5/30	6/29	7/28	8/27	9/26	10/25	11/23	12/23	14	1/21	2/20 3/21
325	14	4/20	5/19	6/18	7/18	8/16	9/15	10/14	11/13	12/12	15	1/11	2/9	3/11
326	15	4/9	5/9	6/7	7/7	8/6	9/4	10/4	11/2	12/2	12/31	16	1/30	2/28

# SELEUCID ERA

Year 327 Seleucid era = year 263 Arsacid era

YEAR	NIS	ATA	SM	DUZ	ABU	ULU	UII	TAS	ARA	KIS	TEB	SHA	ADD	AI I
A.D.														
327	16	3/29	4/27	5/27	6/25	7/25	8/23	9/22	10/22	11/20	12/20	17	1/18	2/16 3/18
328	17	4/17	5/16	6/15	7/14	8/13	9/12	10/11	11/10	12/9	18	1/7	2/6	3/7
329	18	4/6	5/6	6/4	7/4	8/2	9/1	10/1	10/30	11/28	12/28	19	1/26	2/25
330	19	3/27	4/25	5/24	6/23	7/23	8/21	9/20	10/19	11/18	12/17	20	1/16	2/14 3/15
331	20	4/14	5/13	6/11	7/11	8/10	9/8	10/8	11/6	12/6	21	1/4	2/3	3/4
332	21	4/3	5/2	6/1	6/30	7/30	8/28	9/27	10/26	11/25	12/25	22	1/23	2/22 3/23
333	22	4/21	5/21	6/20	7/19	8/18	9/16	10/16	11/14	12/14	23	1/13	2/11	3/12
334	23	4/11	5/10	6/9	7/9	8/7	9/6	10/5	11/4	12/3	24	1/2	1/31	3/2
335	24	3/30	4/29	5/28	6/27	7/27	8/25	9/24	10/23	11/22	12/21	25	1/20	2/18 3/19
336	25	4/18	5/18	6/16	7/16	8/14	9/13	10/13	11/11	12/11	26	1/10	2/8	3/10
337	26	4/8	5/7	6/6	7/5	8/4	9/2	10/2	11/1	11/30	12/30	27	1/28	2/26
338	27	3/28	4/26	5/26	6/25	7/24	8/23	9/21	10/21	11/19	12/19	28	1/17	2/16 3/16
339	28	4/15	5/14	6/13	7/12	8/11	9/10	10/9	11/8	12/7	29	1/6	2/4	3/6
340	29	4/5	5/4	6/2	7/2	7/31	8/30	9/29	10/28	11/27	12/26	30	1/24	2/23
341	30	3/25	4/23	5/23	6/21	7/21	8/19	9/18	10/17	11/16	12/16	31	1/14	2/12 3/14
342	31	4/12	5/12	6/11	7/10	8/9	9/7	10/7	11/5	12/5	32	1/3	2/2	3/2
343	32	4/1	4/30	5/30	6/28	7/28	8/27	9/26	10/25	11/23	12/23	33	1/21	2/20 3/21
344	33	4/19	5/19	6/17	7/17	8/16	9/15	10/15	11/13	12/12	34	1/11	2/9	3/11
345	34	4/9	5/9	6/7	7/7	8/5	9/4	10/4	11/2	12/2	12/31	35	1/29	2/28
346	35	3/30	4/28	5/27	6/26	7/26	8/24	9/23	10/22	11/21	12/20	36	1/19	2/17 3/18
347	36	4/17	5/16	6/15	7/14	8/13	9/11	10/11	11/9	12/9	37	1/7	2/5	3/7
348	37	4/6	5/5	6/4	7/3	8/2	9/1	9/30	10/30	11/28	12/28	38	1/26	2/24
349	38	3/26	4/25	5/24	6/23	7/22	8/21	9/20	10/19	11/18	12/17	39	1/15	2/14 3/15
350	39	4/14	5/13	6/12	7/12	8/10	9/9	10/8	11/7	12/6	40	1/5	2/3	3/4
351	40	4/2	5/2	6/1	6/30	7/30	8/28	9/27	10/26	11/25	12/24	41	1/23	2/21 3/23
352	41	4/21	5/21	6/19	7/19	8/17	9/16	10/16	11/14	12/14	42	1/12	2/11	3/12
353	42	4/10	5/10	6/9	7/8	8/7	9/6	10/5	11/4	12/3	43	1/2	1/31	3/1
354	43	3/31	4/30	5/29	6/28	7/27	8/26	9/24	10/24	11/22	12/22	44	1/20	2/19 3/19
355	44	4/18	5/17	6/16	7/16	8/14	9/13	10/12	11/11	12/10	45	1/9	2/7	3/9
356	45	4/8	5/7	6/5	7/5	8/4	9/2	10/2	10/31	11/30	12/29	46	1/28	2/26



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